

Fig 1

Transmit 201

Receive 202

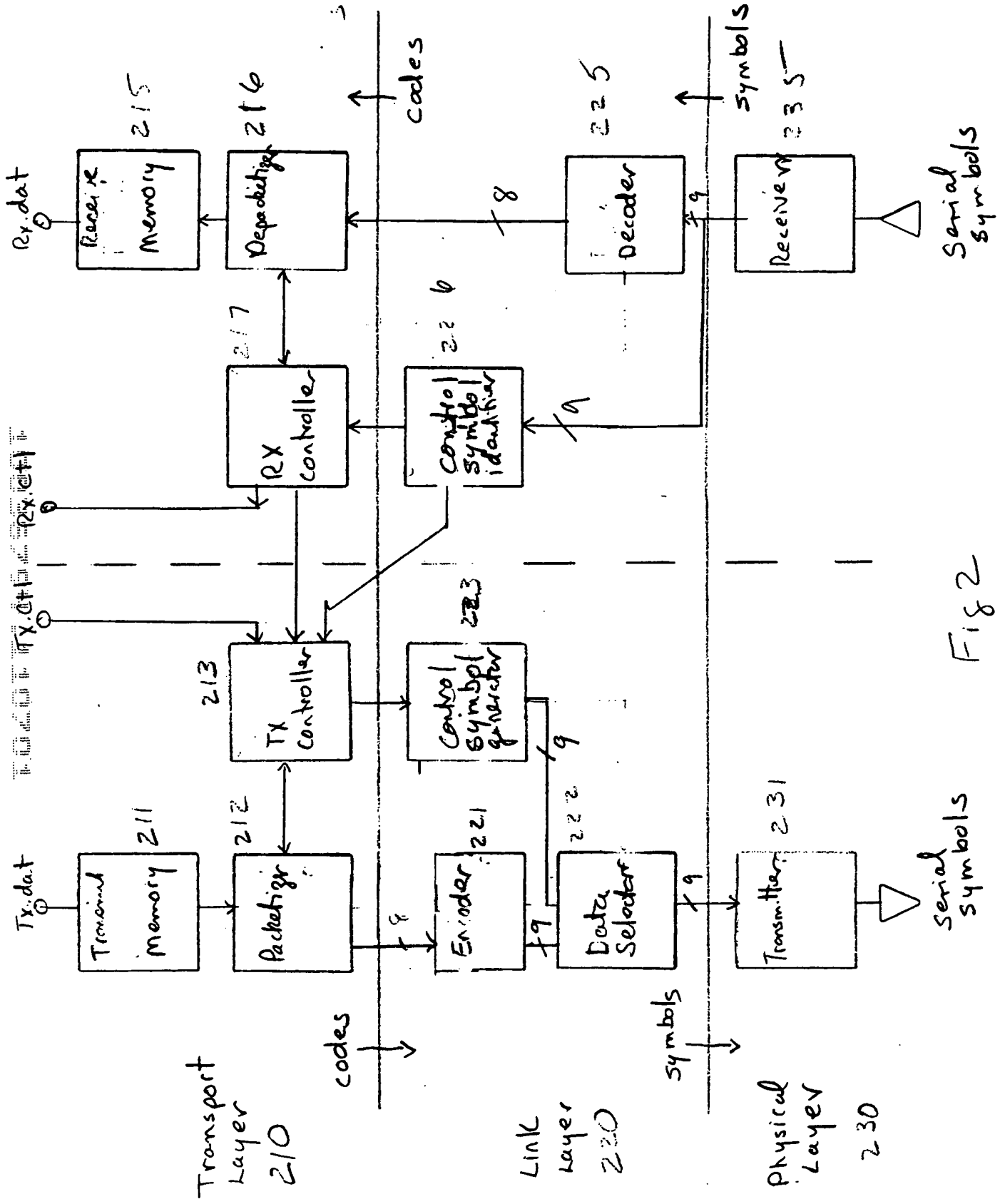


Fig 2

Physical Layer 230

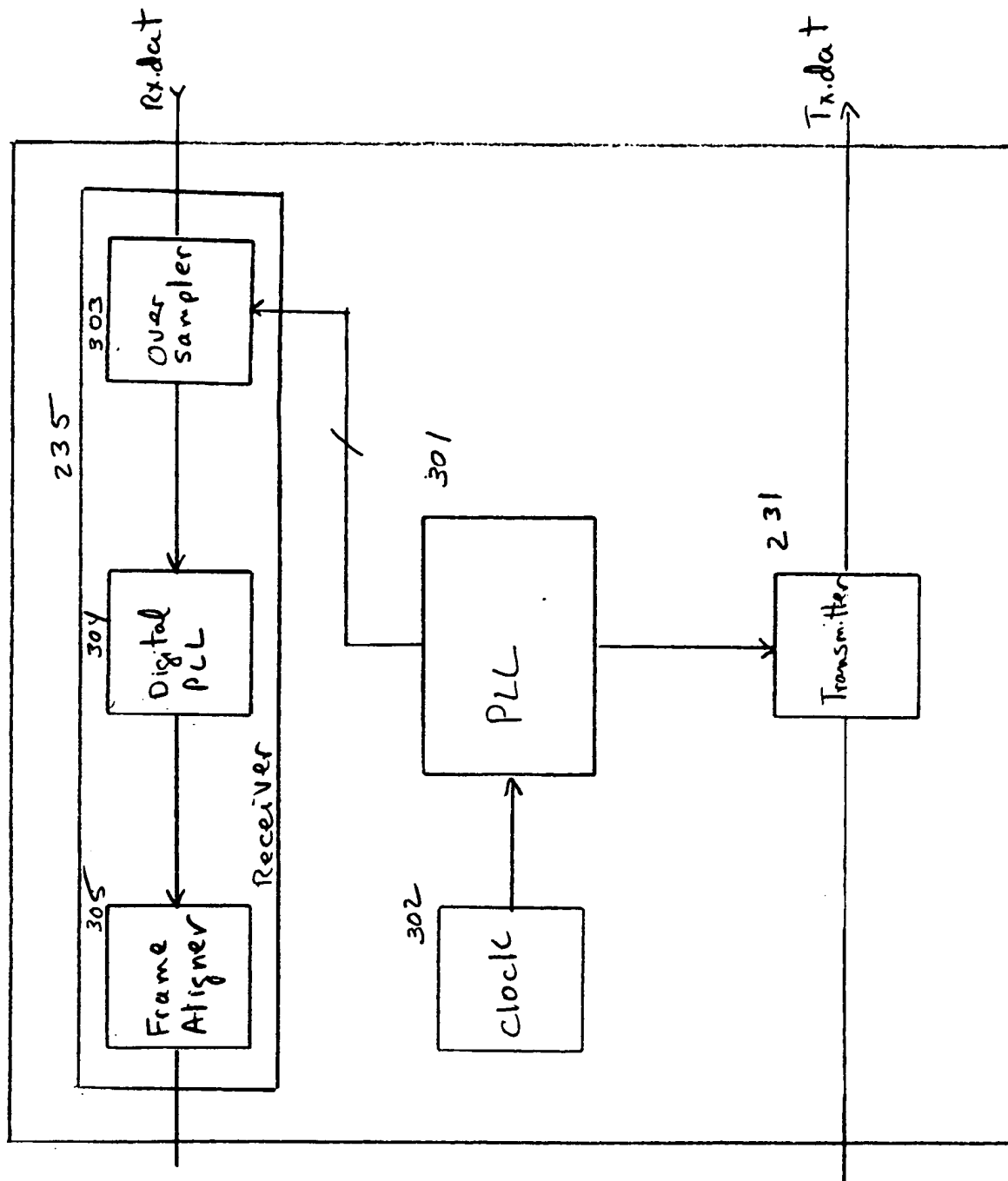


Fig 3

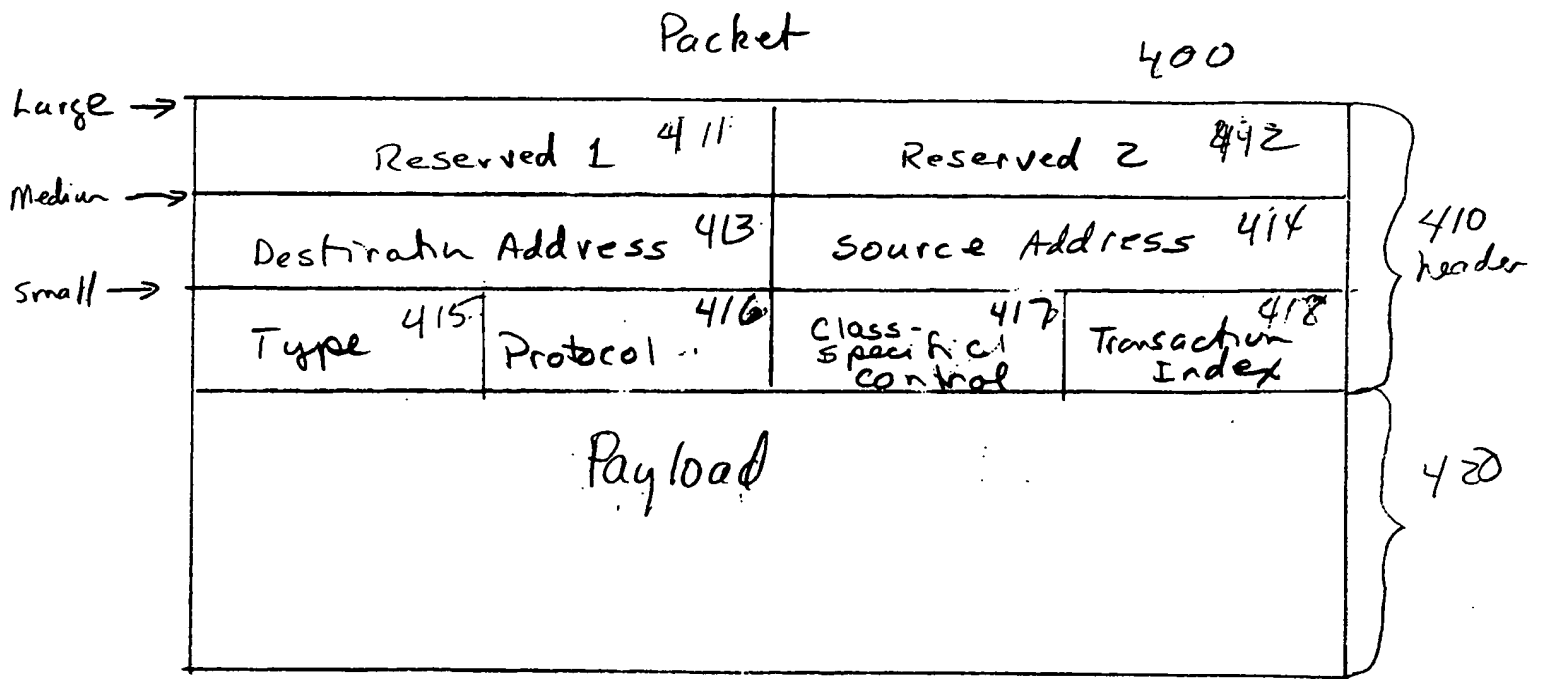
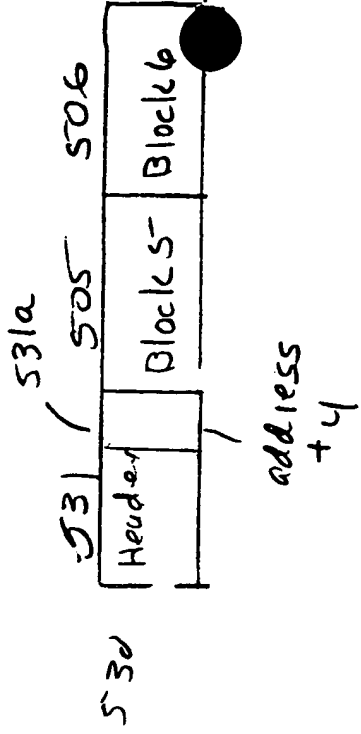
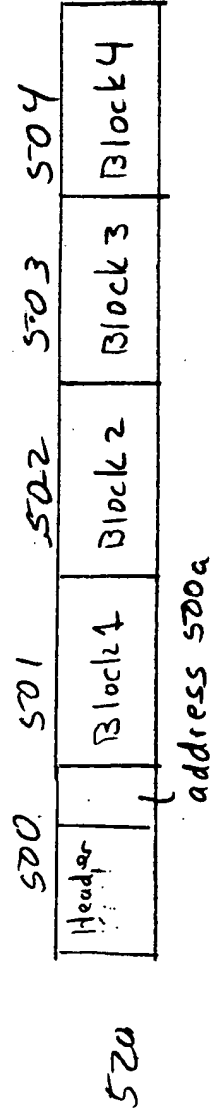
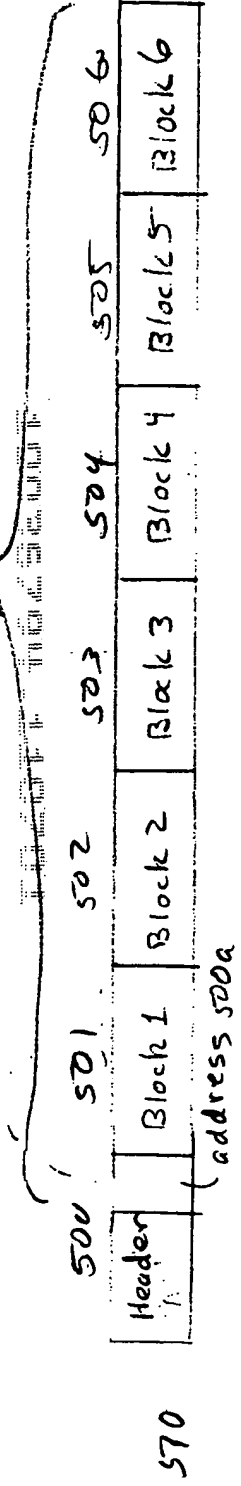


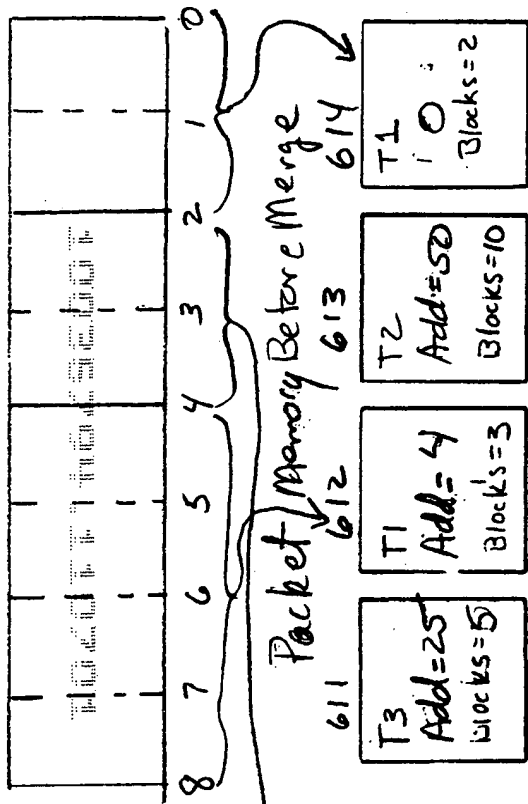
Fig 4

Downloaded from www.studocu.com

Payload 511



F.85



Received Packet

T1 /

Add = 2

Blocks = 2

630

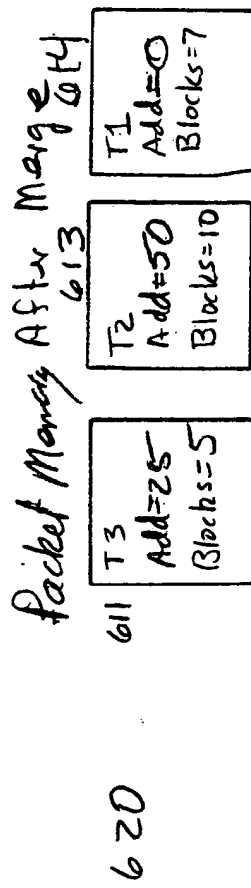


Fig 6

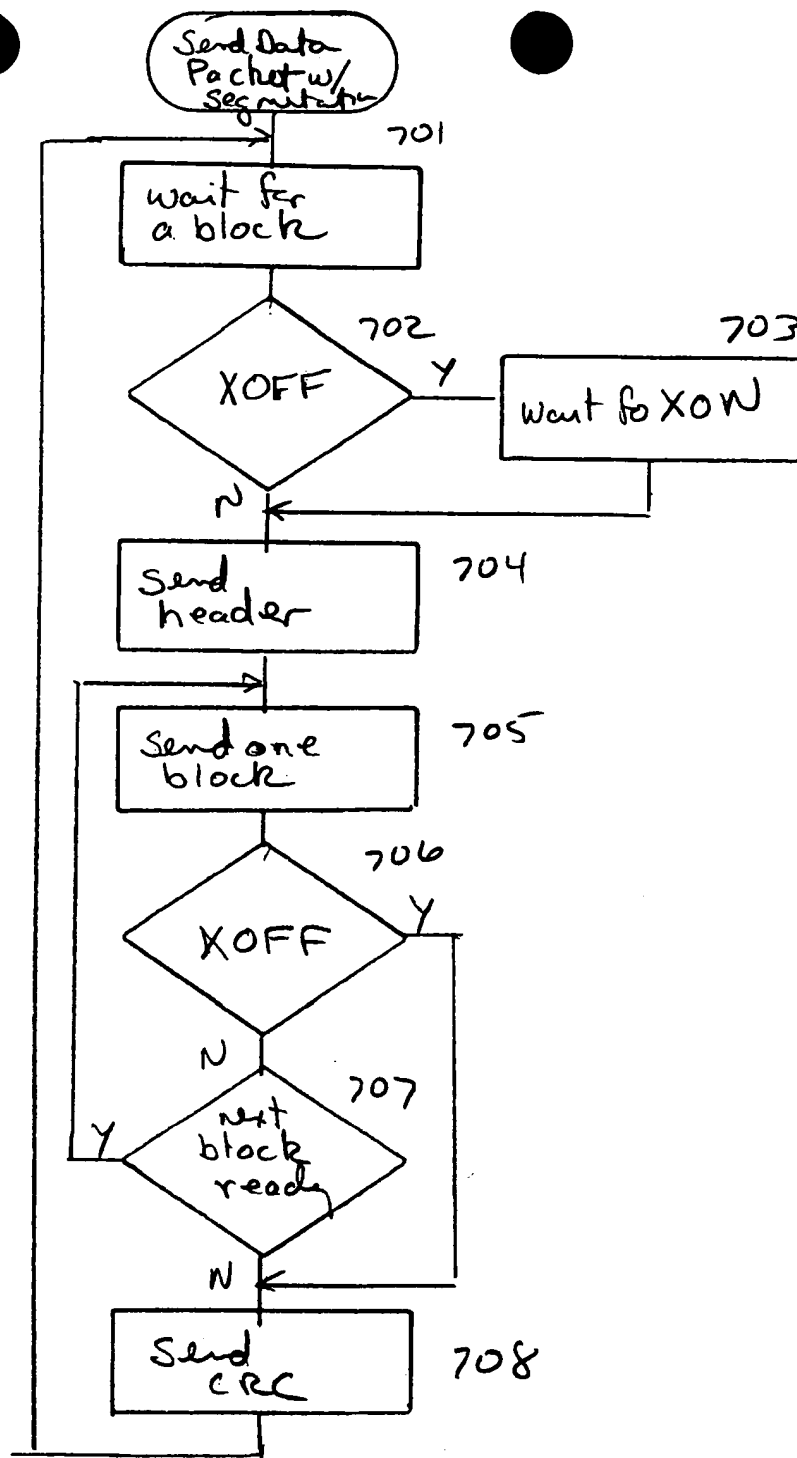


Fig 7

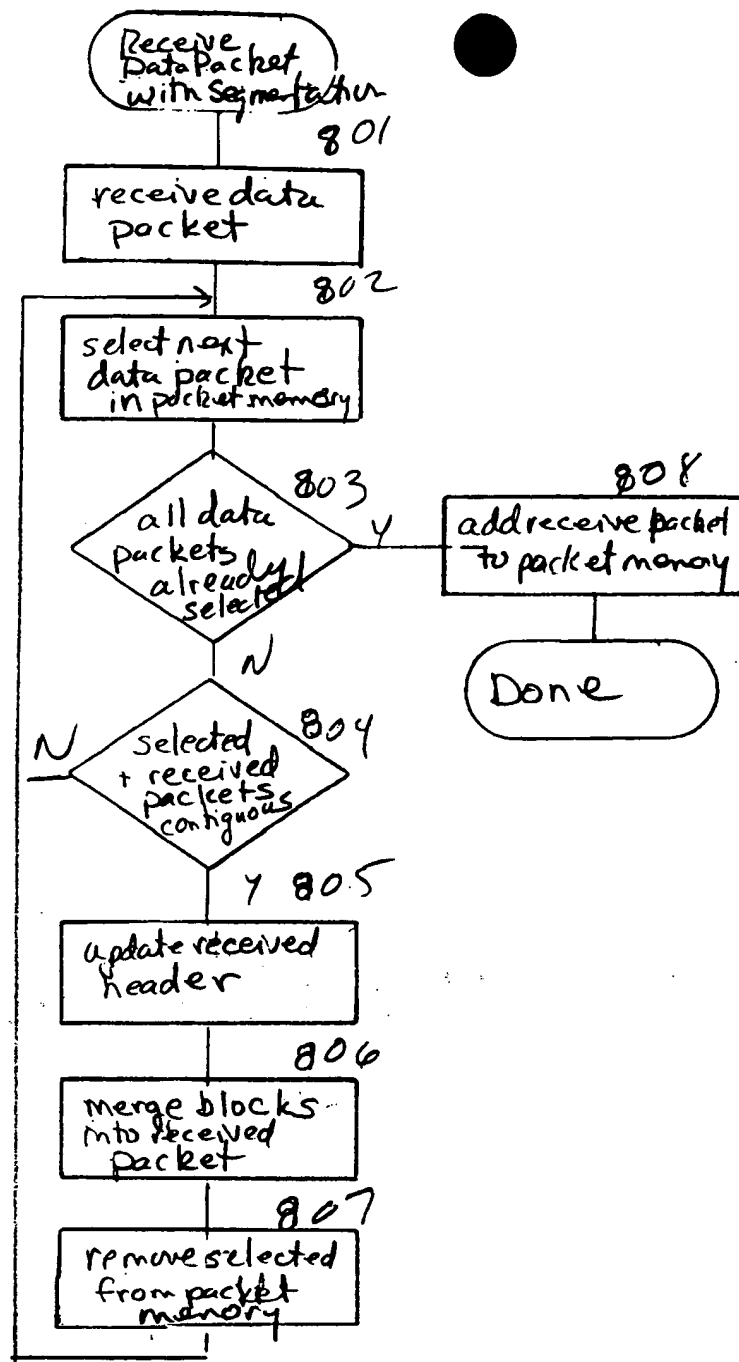


Fig 8



900 901 902 903 904



sync + packet type

Fig 9A

BIT BUFFER	A8	A7	A6	A5	A4	A3	A2	A1	A0	B8	B7	B6	B5	B4	B3	B2	B1	C0	C8	C7	C6	C5	C4	C3	C2	C1	C0
BIT CONTENT	0	0	1	0	0	0	0	0	0	0	1	1	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0
"10" DETECTION	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
"10" DETECTION	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
RESULT	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Symbol																											
<del>STARTING</del> POINTS																											

FIG.10

Fig 9B

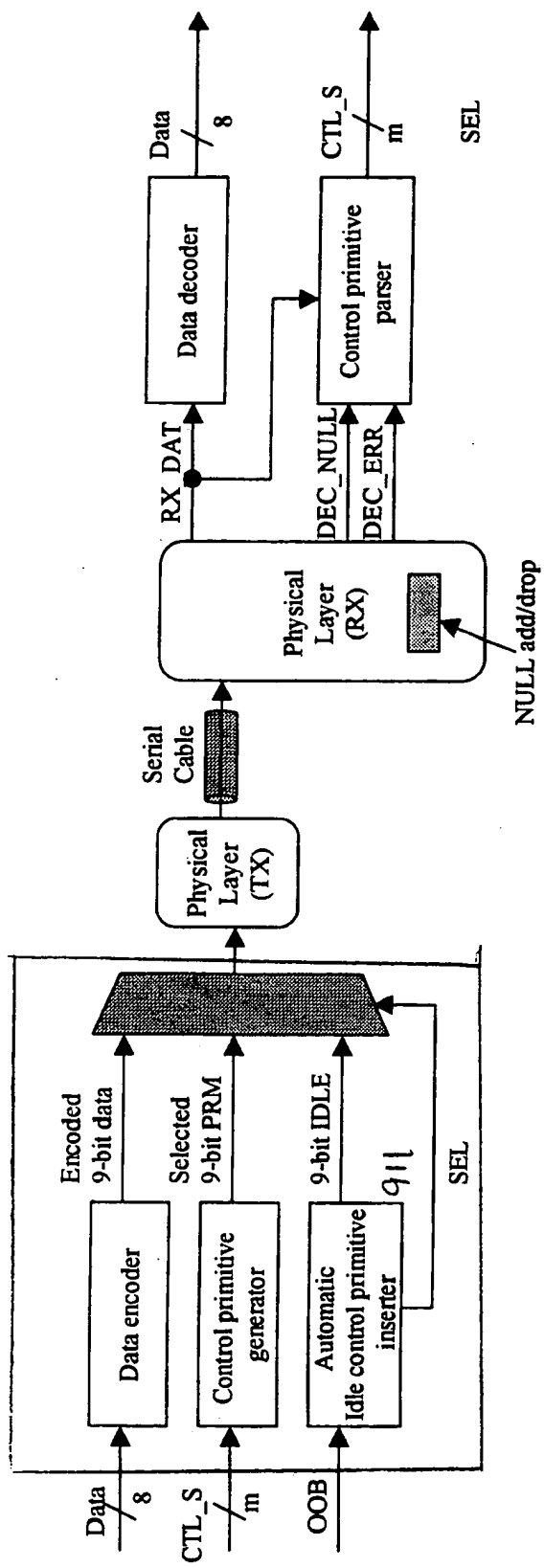


Fig. 9C

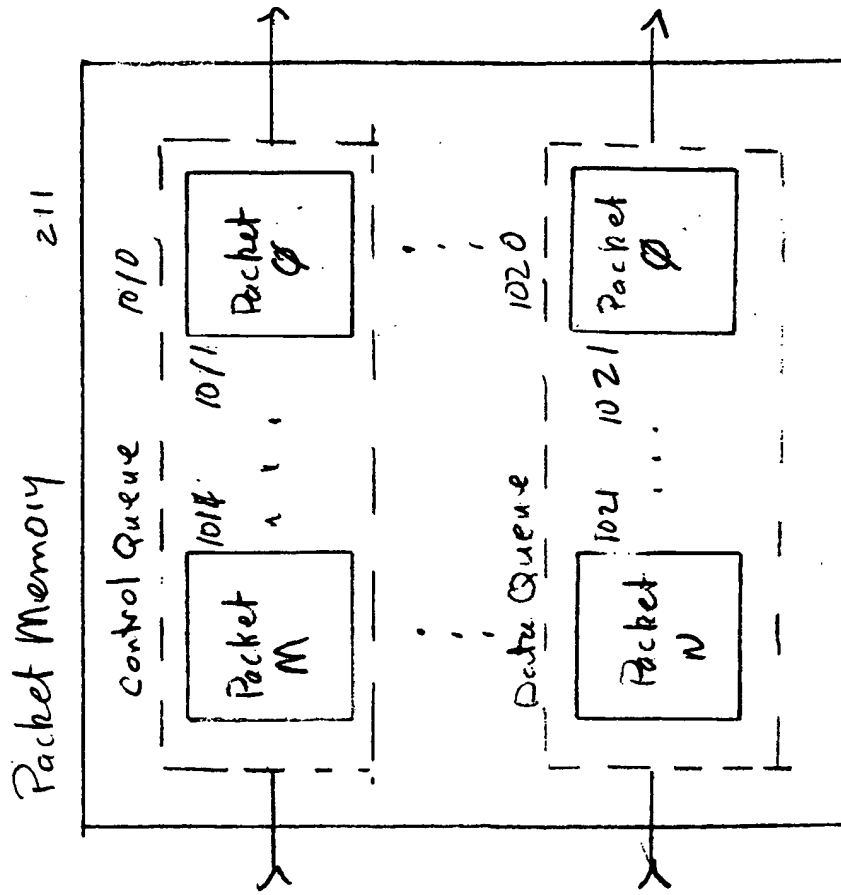


FIG 10

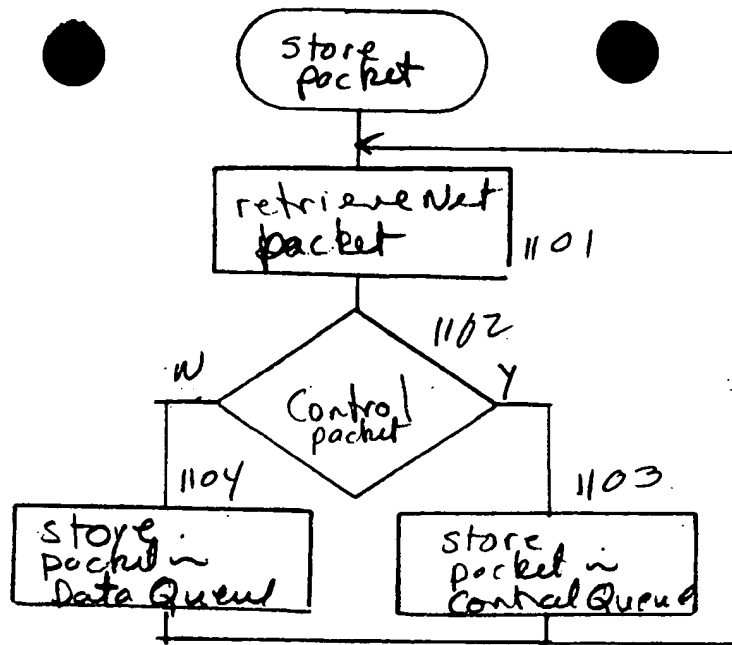


Fig 11

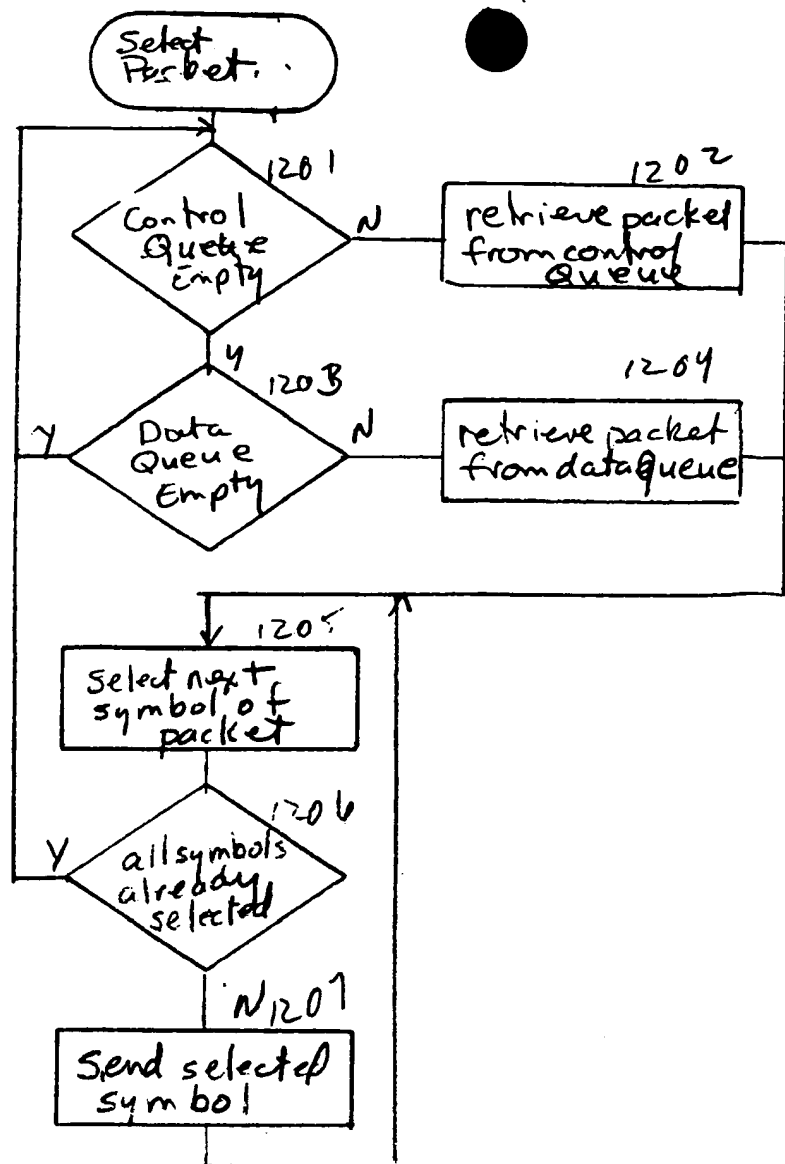


Fig 12

1300 1301 1302 1303 1304 1305

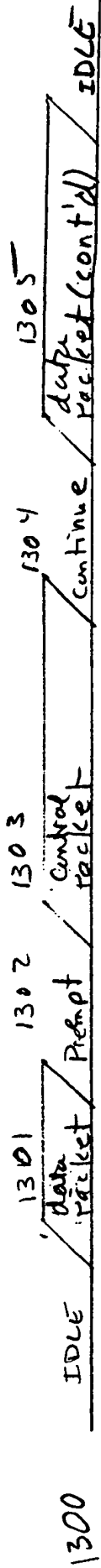


Fig 13

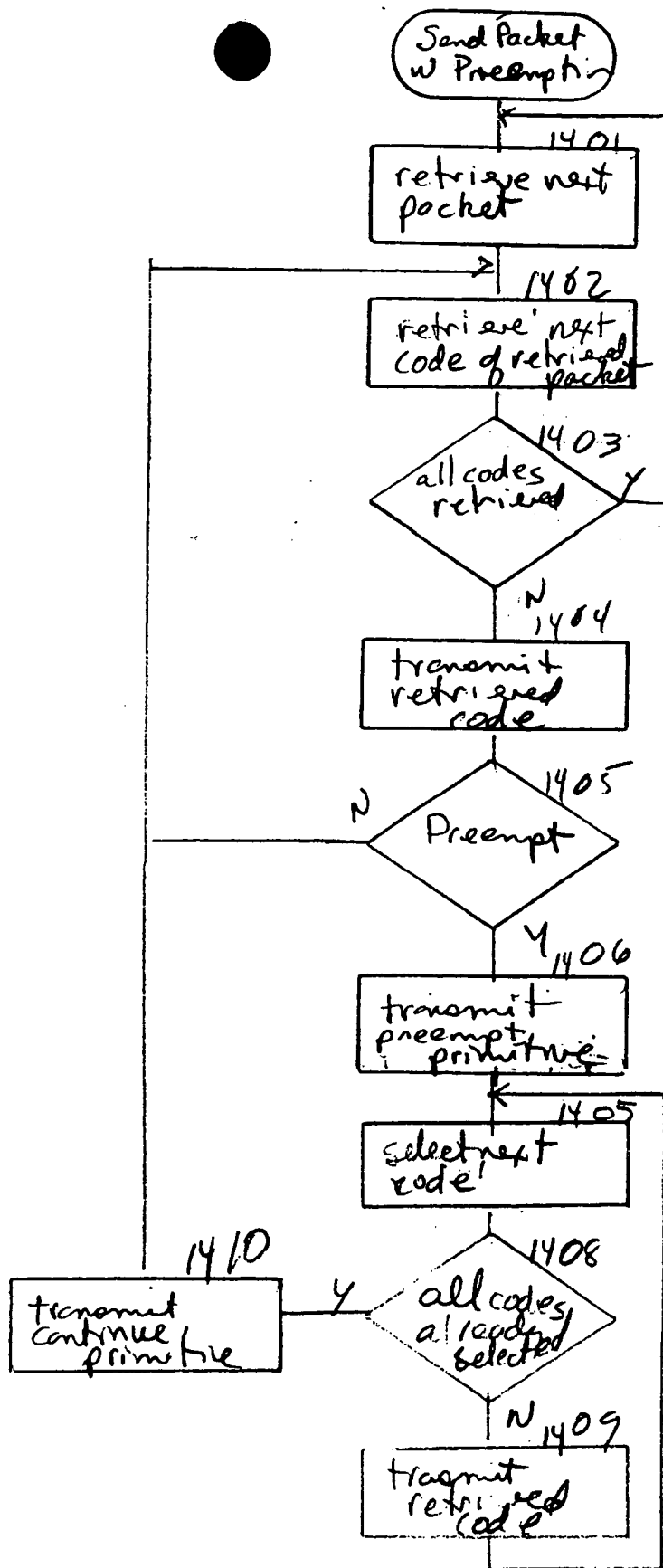


Fig 14

FIG. 14



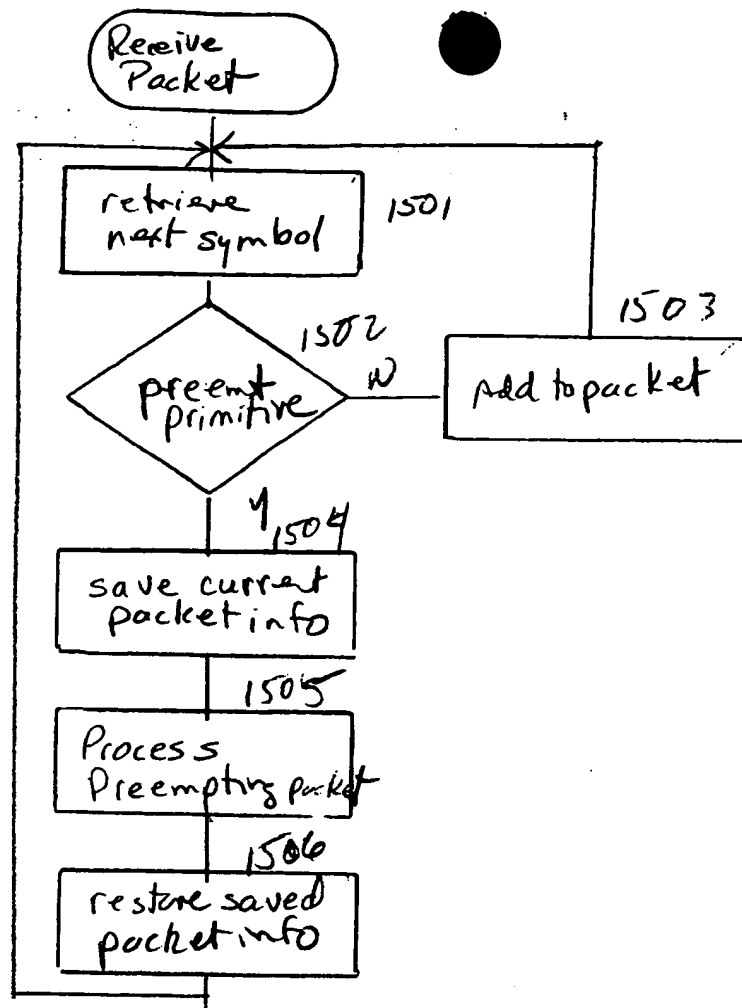


Fig 15

# Switch Network

1630

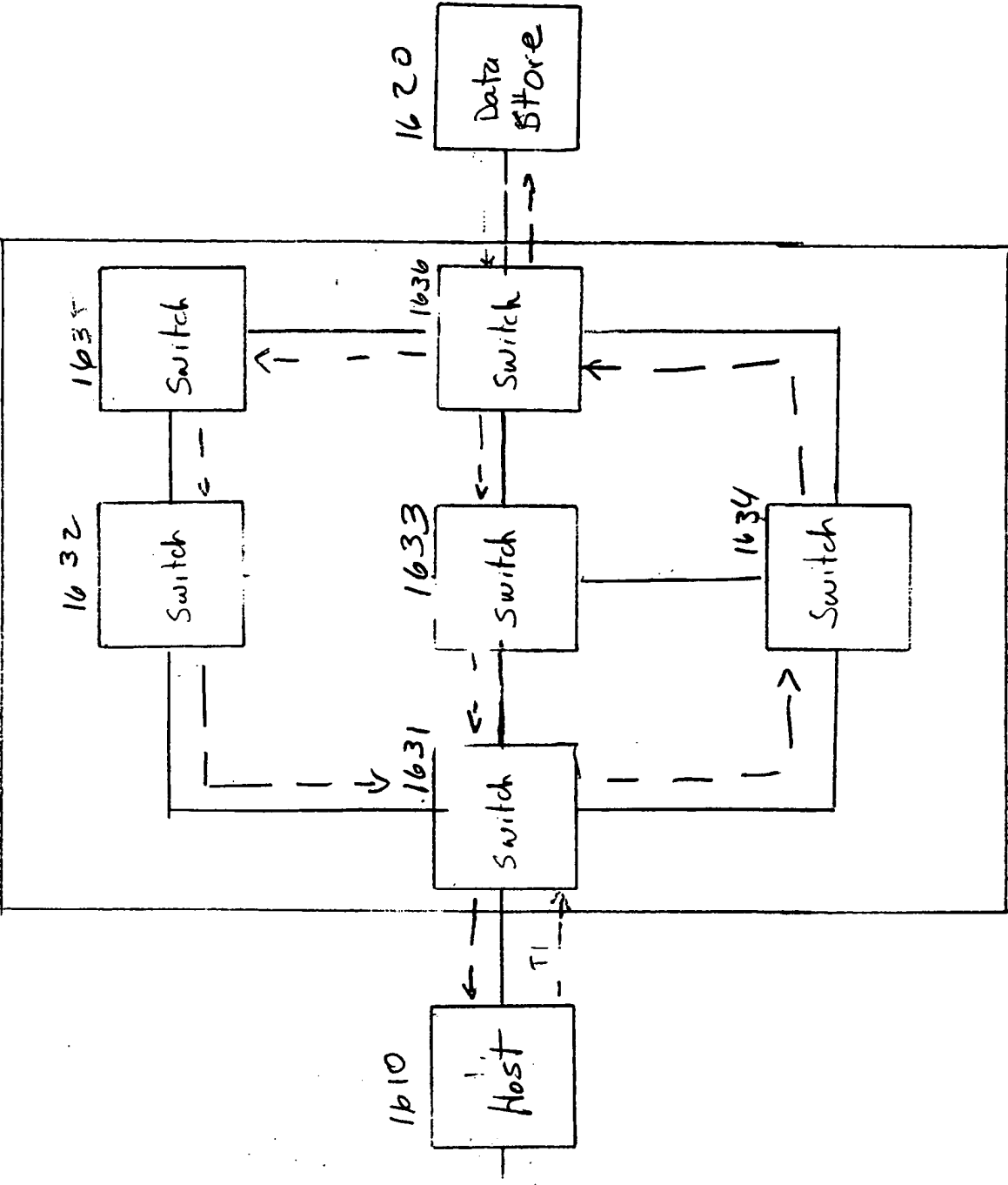
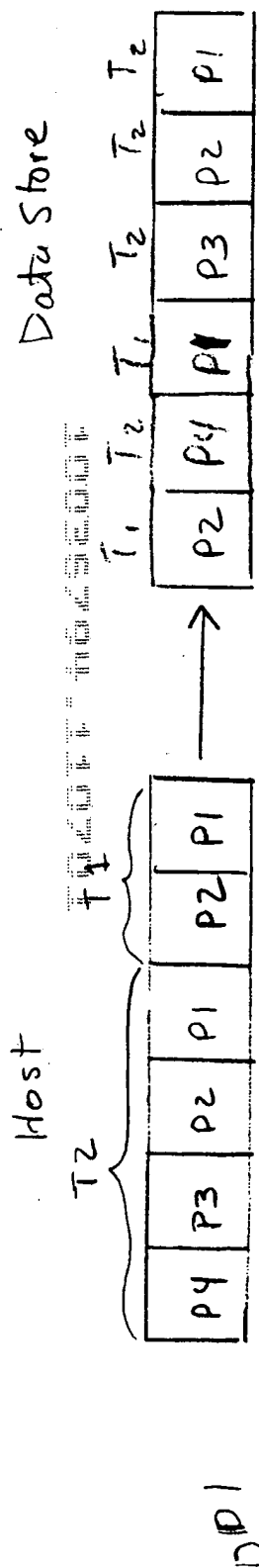
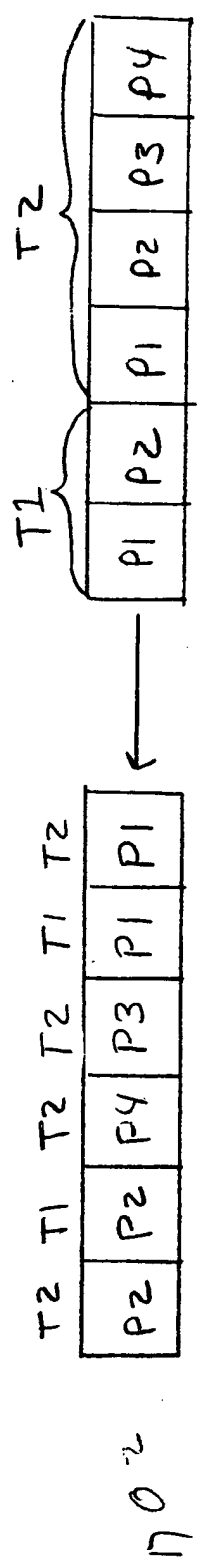


Fig 16



Preserving Packet Order w/ Transaction



No Packet or Transaction Ordering

Fig 17

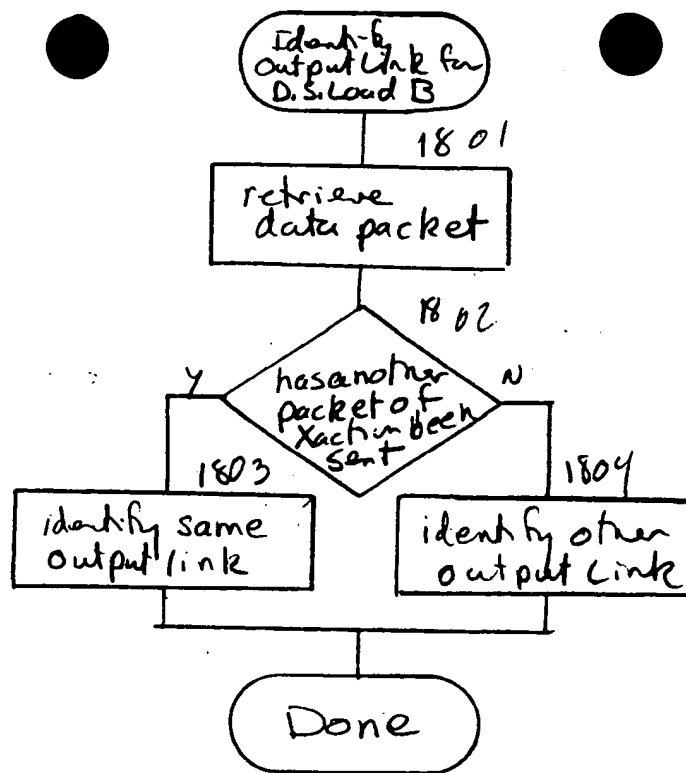


Fig 18

FIG. 19A

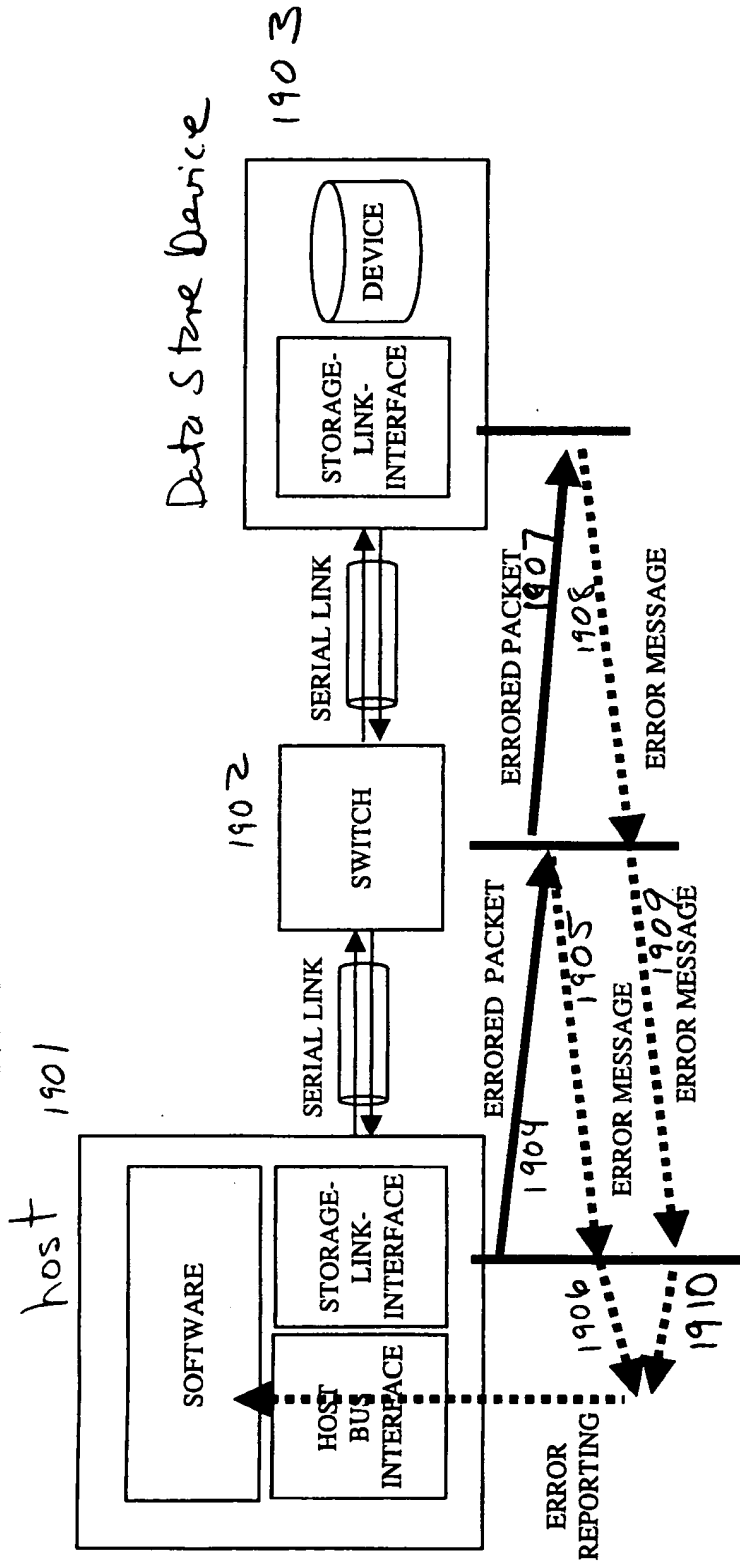


Fig 19A

1901

FIG. 19B

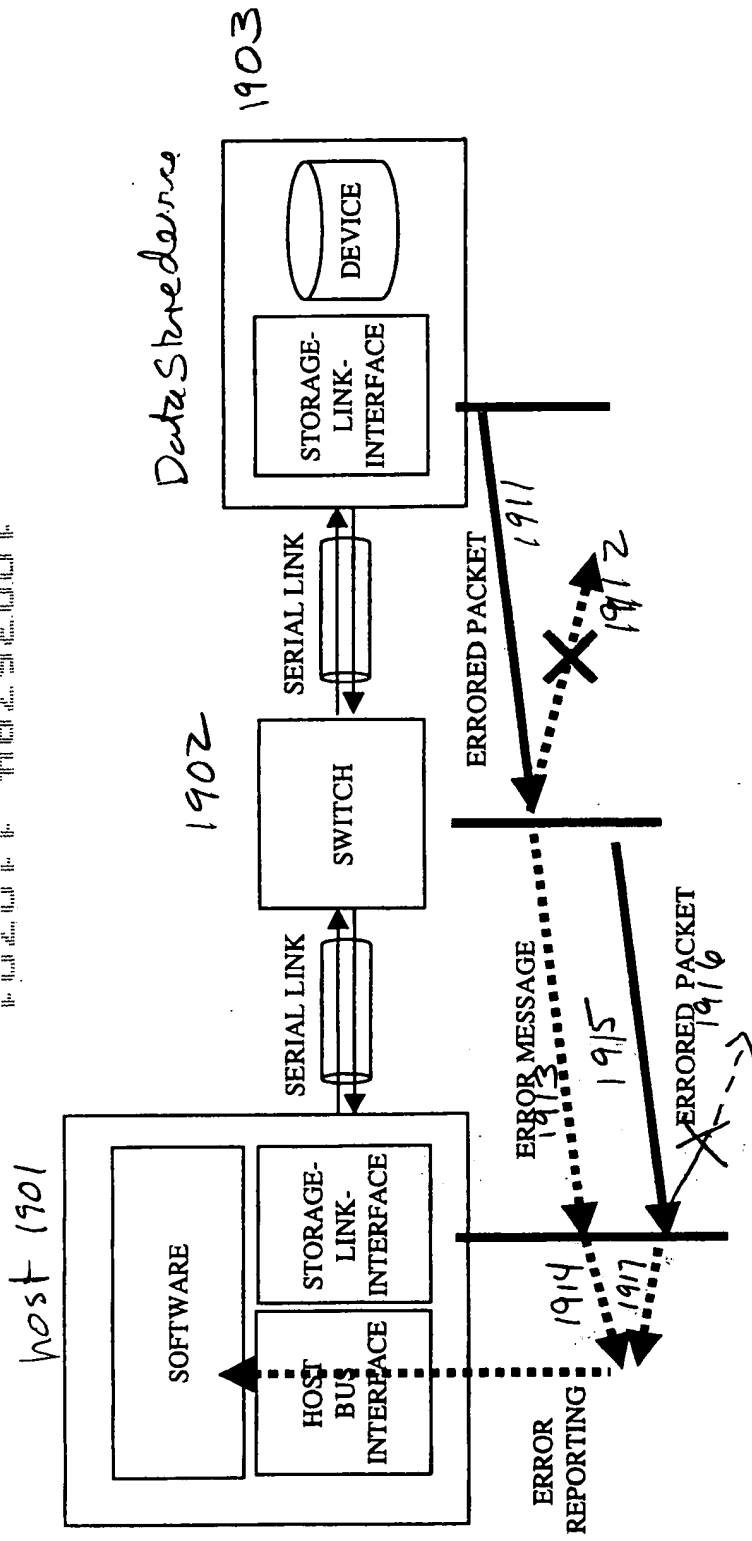
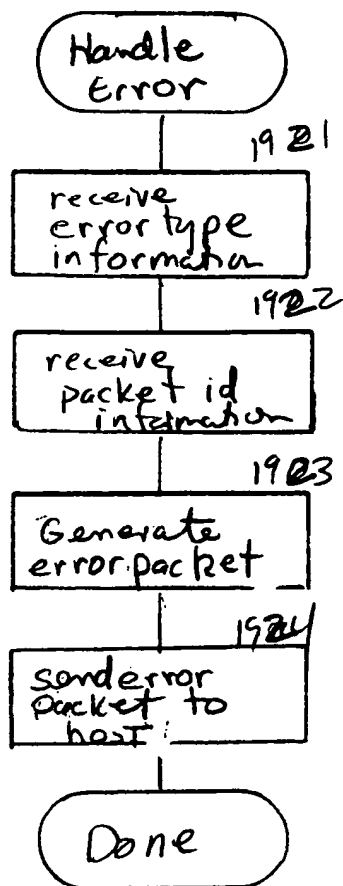


Fig 19B



19C

8 b Code	9 bit symbol
0000 0000	101010101
0000 0001	101010100
0000 0010	101010111
⋮	
0101 0101	001010101
⋮	
0111 0110	001110110
0111 0111	100100010
⋮	
1111 1111	110101010

Fig 20



# TEST SET

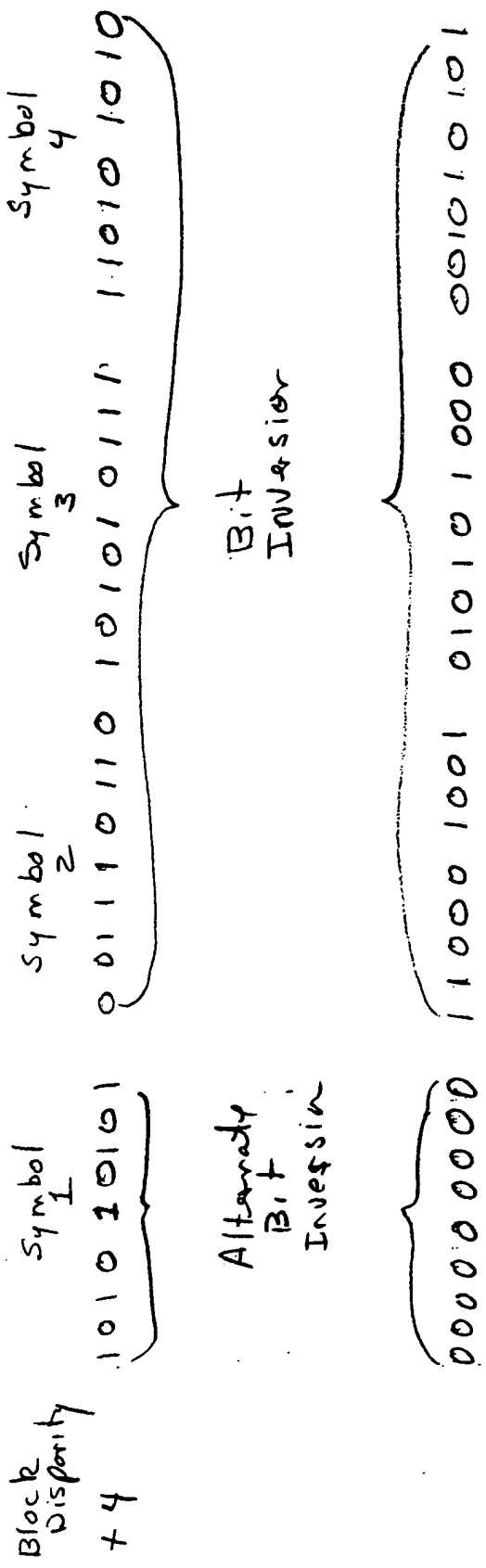


Fig 21A

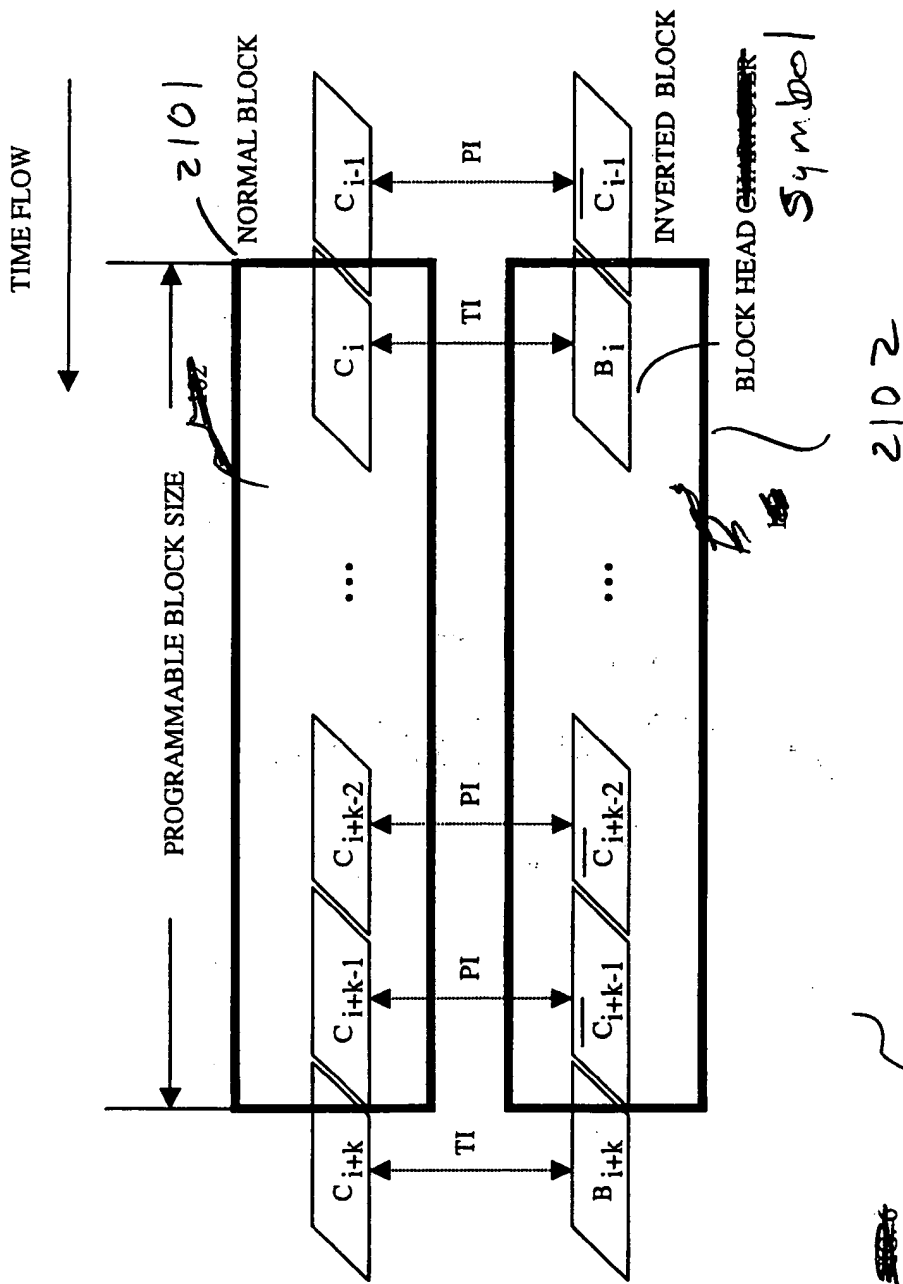


Fig 21B

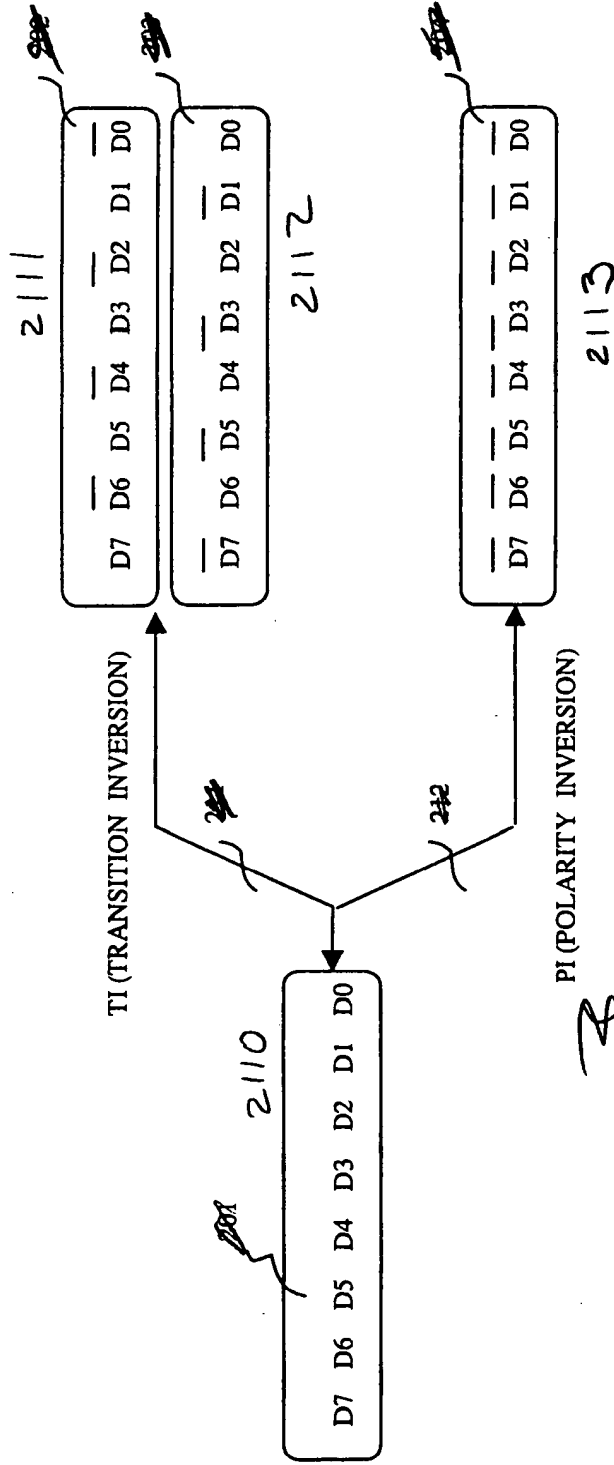


Fig 21C

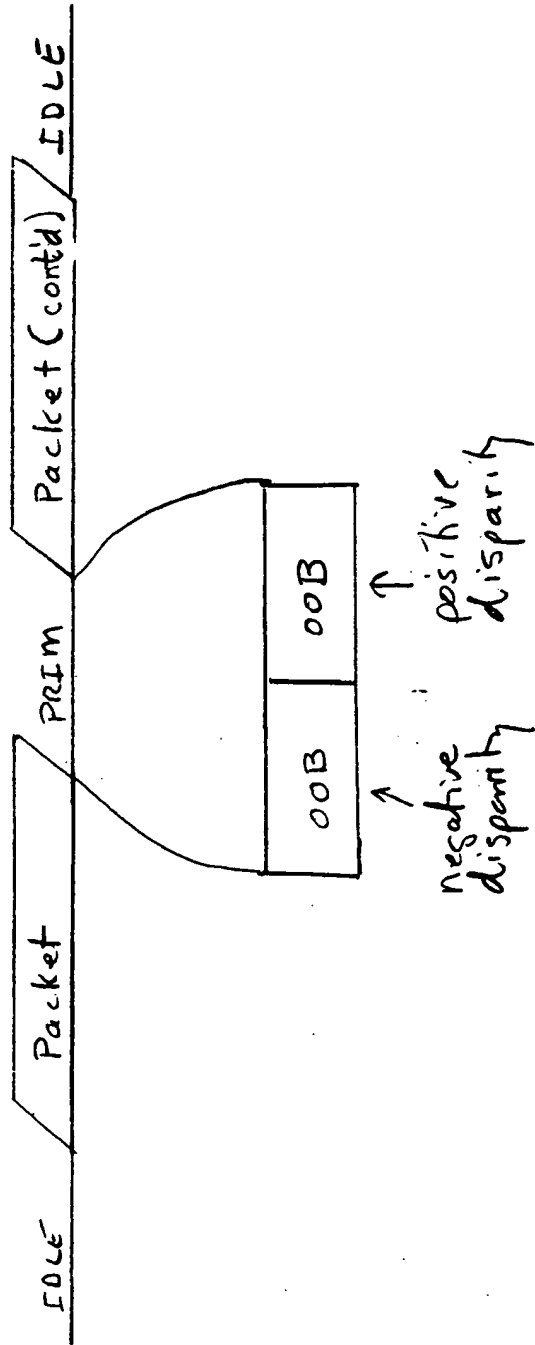


Fig 22

FIG. 23

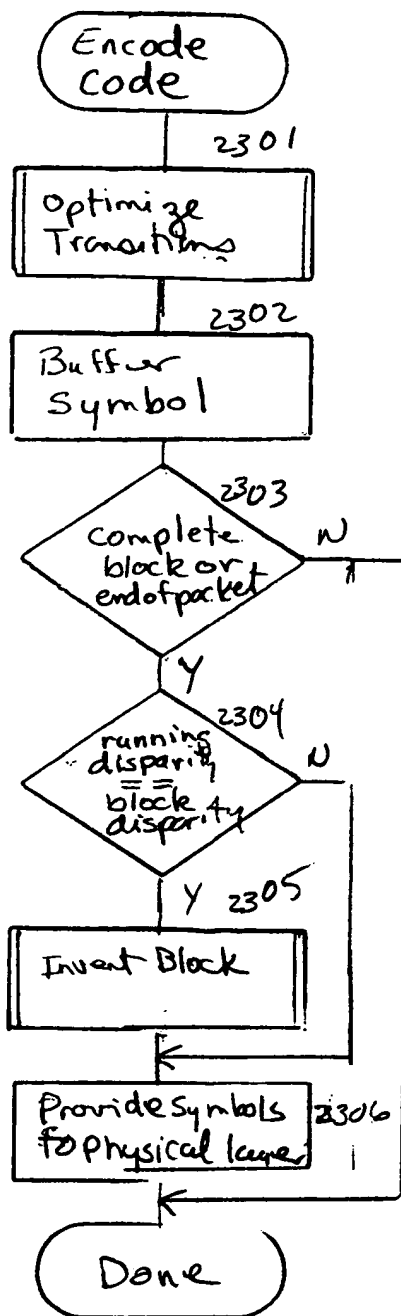


Fig 23

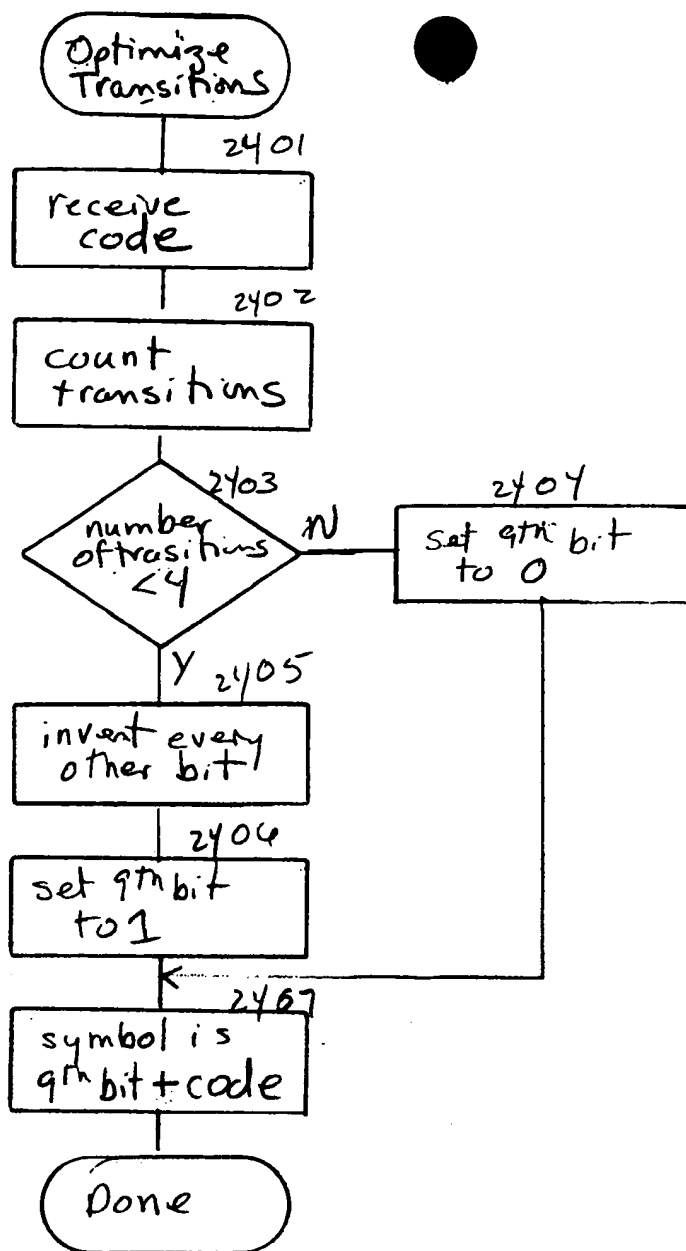


Fig 24

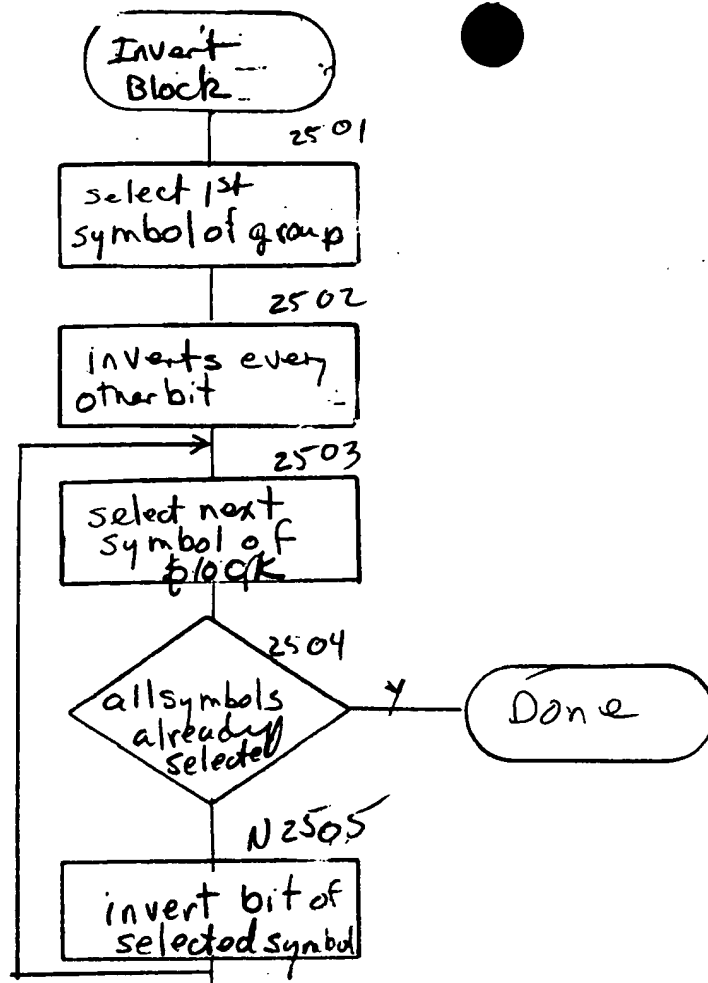


Fig 25-

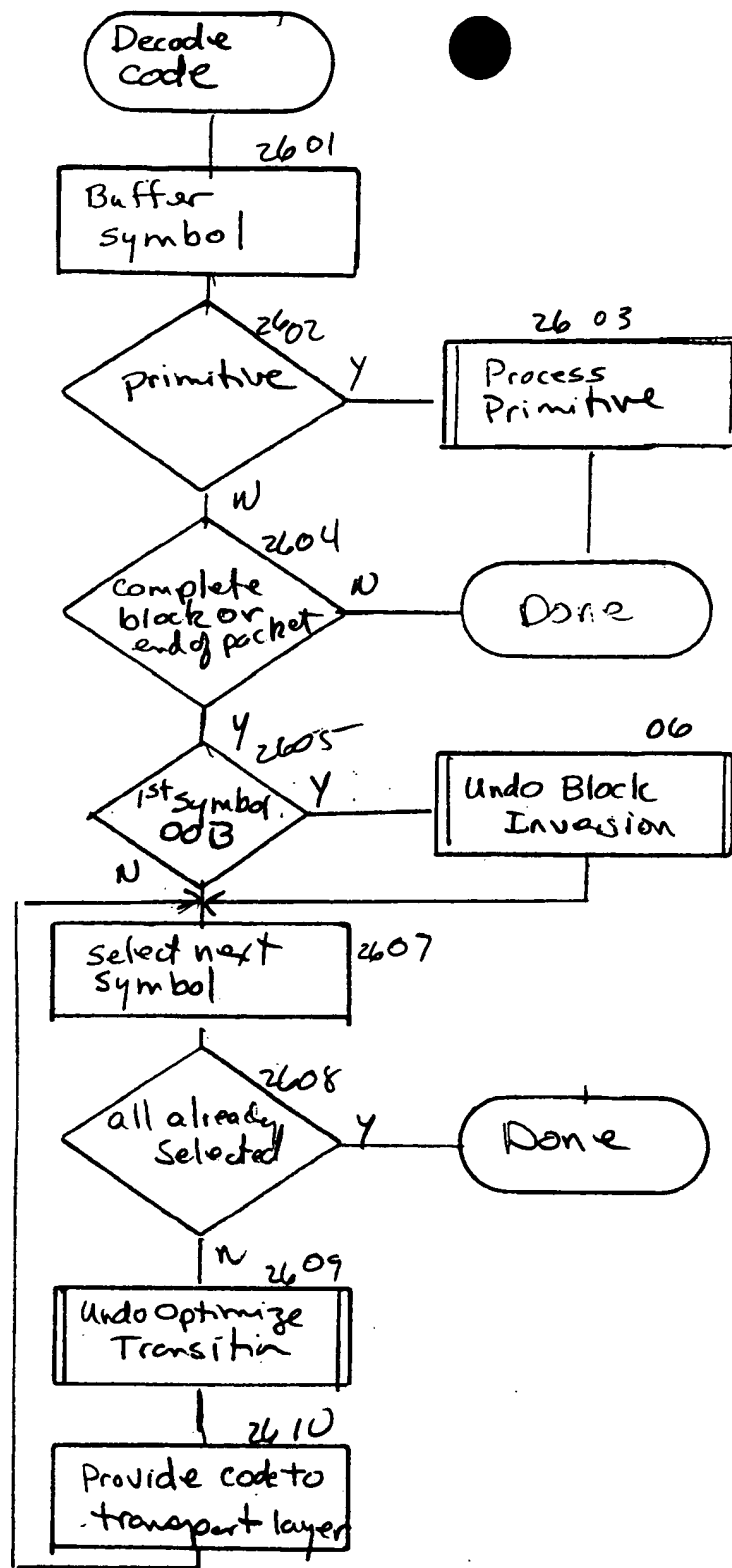


Fig 26



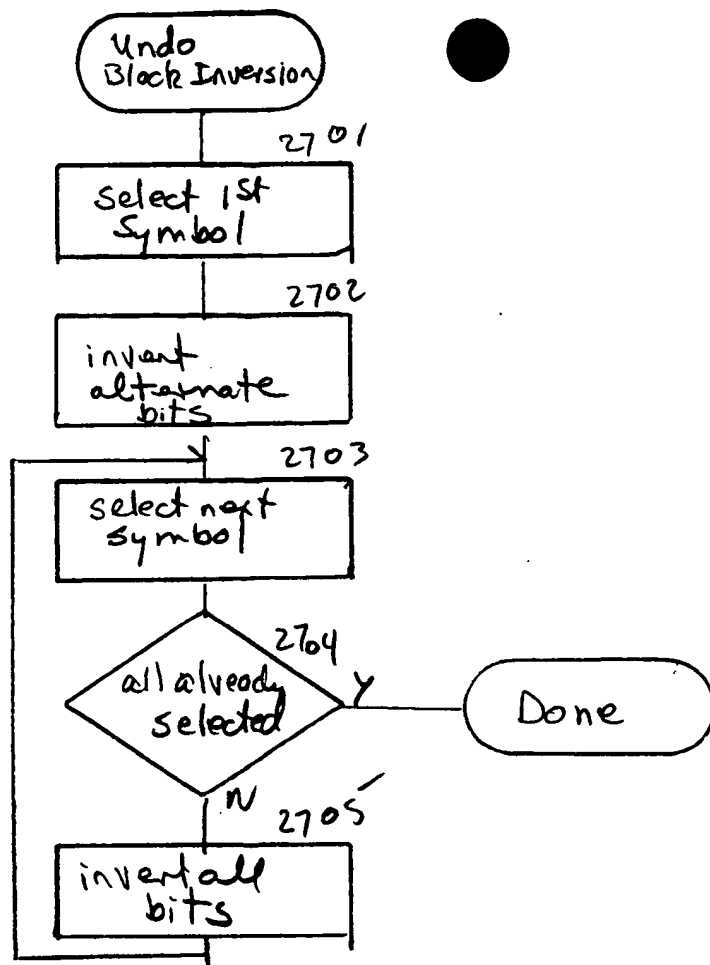


Fig 27

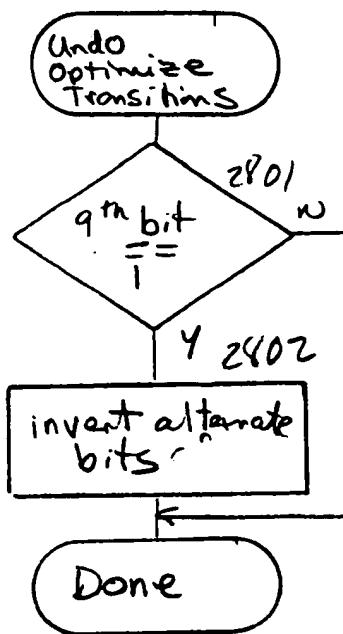


Fig 28

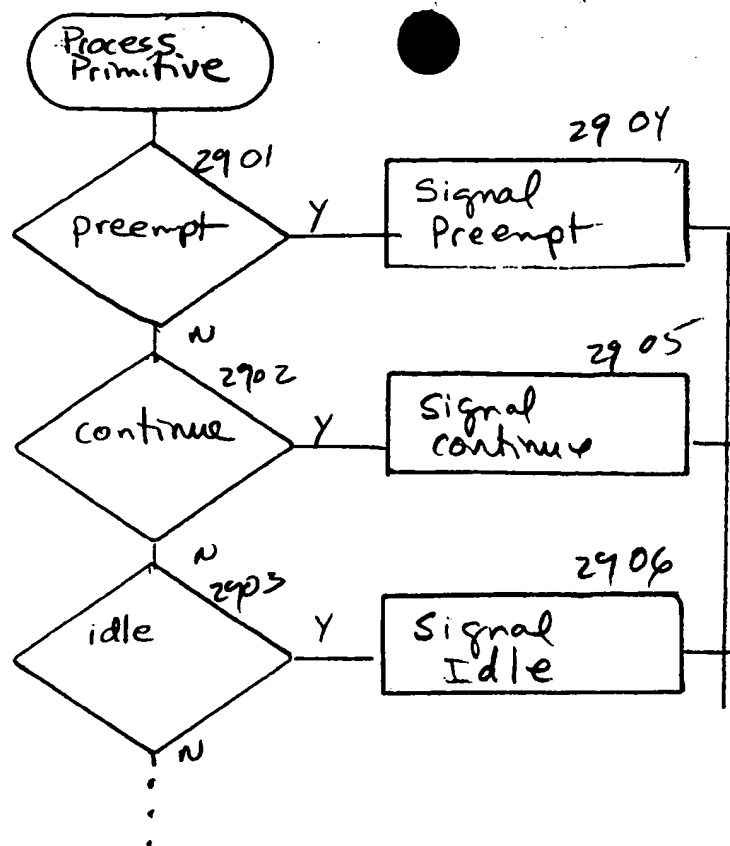


Fig 29

# Multiport Memory Device 3000

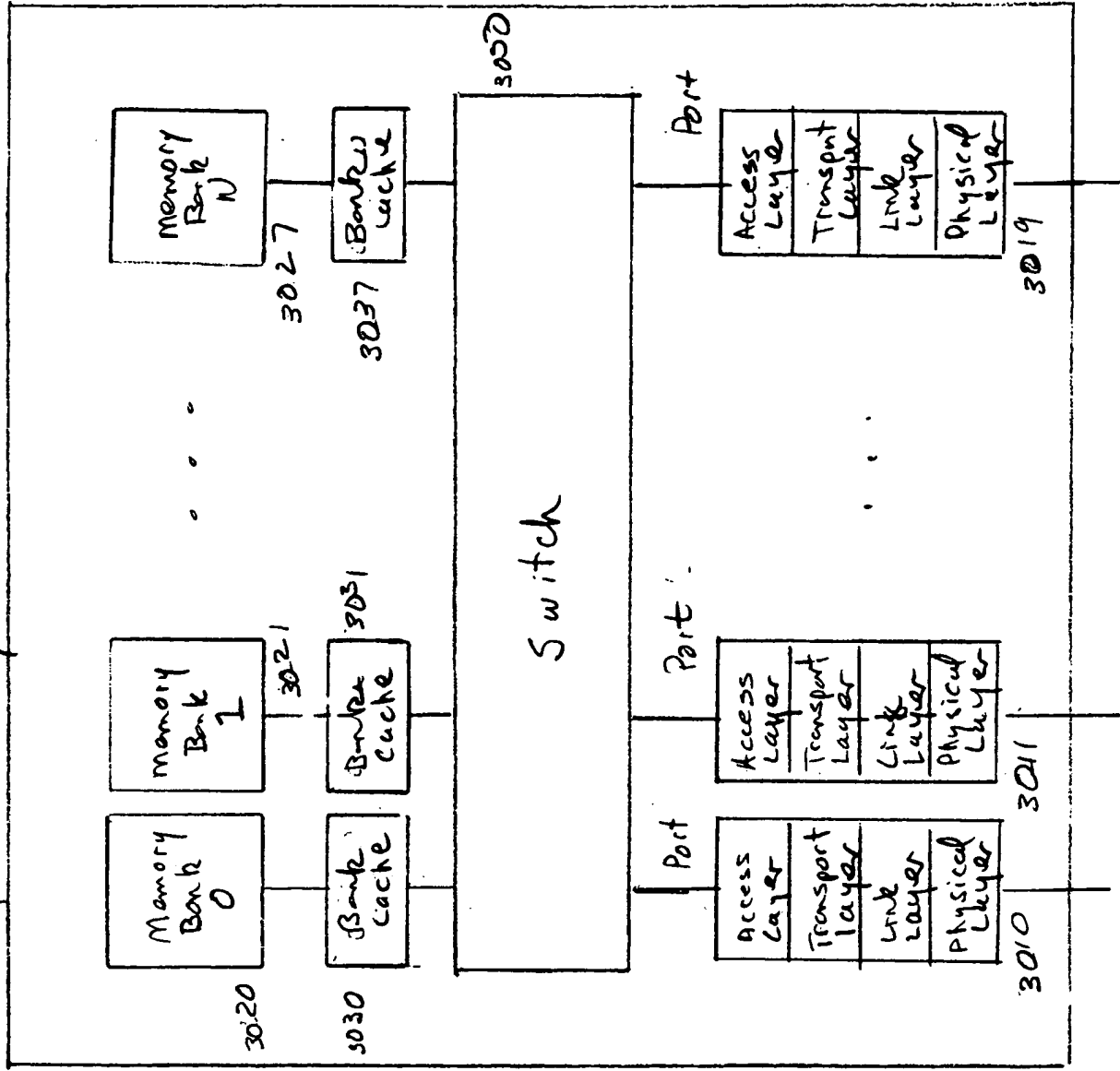
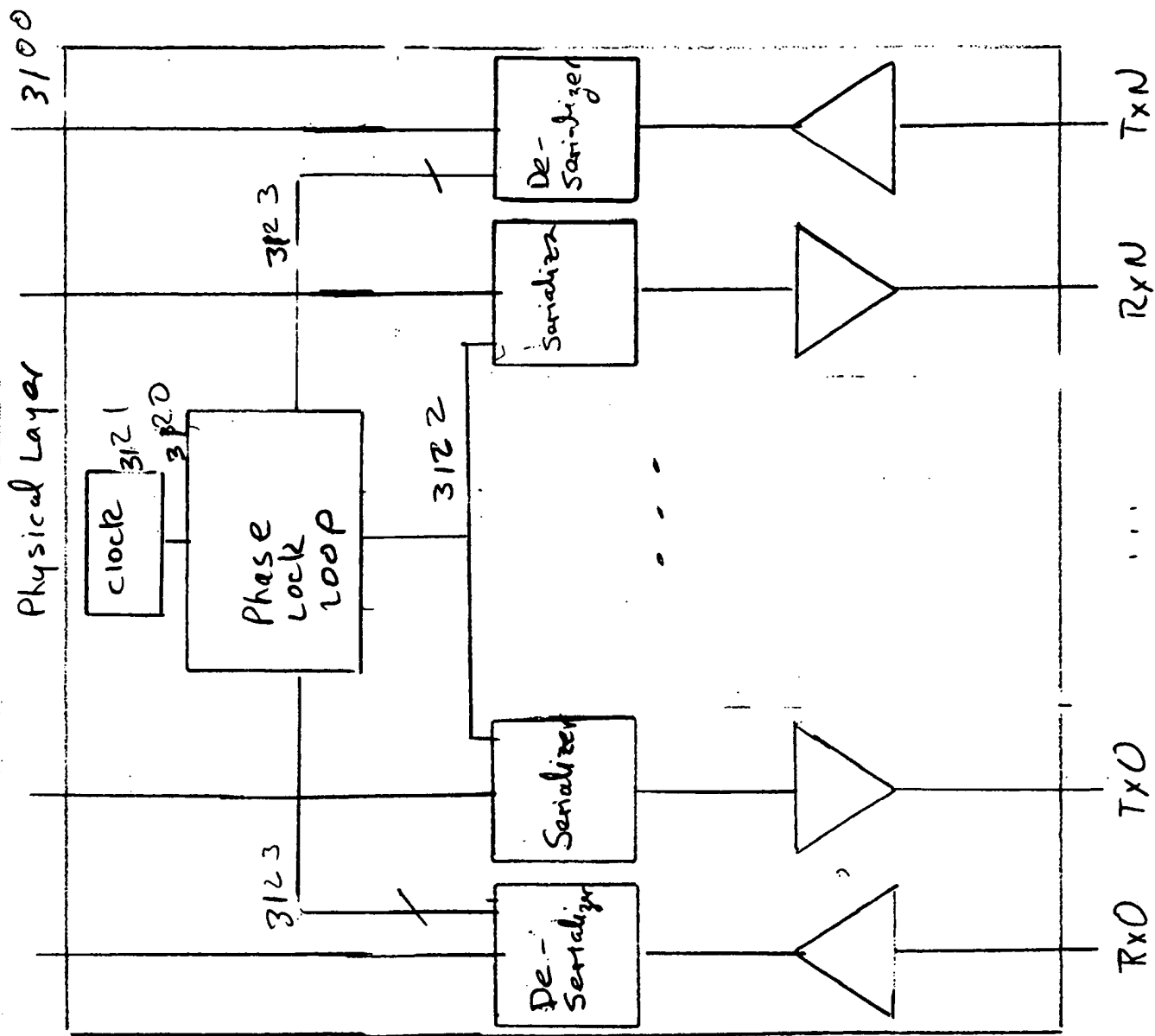


Fig 30

[illegible]

## Physical Layer


$$T \times U$$

$R \times O$        $T \times O$

TxO

...

3119

Fig 31

31.10

Input Queue 3201				Output Queue 3202			
Port	R/W	Address	Data	Valid	Port	Data	
3	R	1000		1	3	11...0	
4	W	4000	10...1	0			
3	W	1000	111...0	0			
3	R	2000		1	3	101...1	
					⋮		

Fig 32

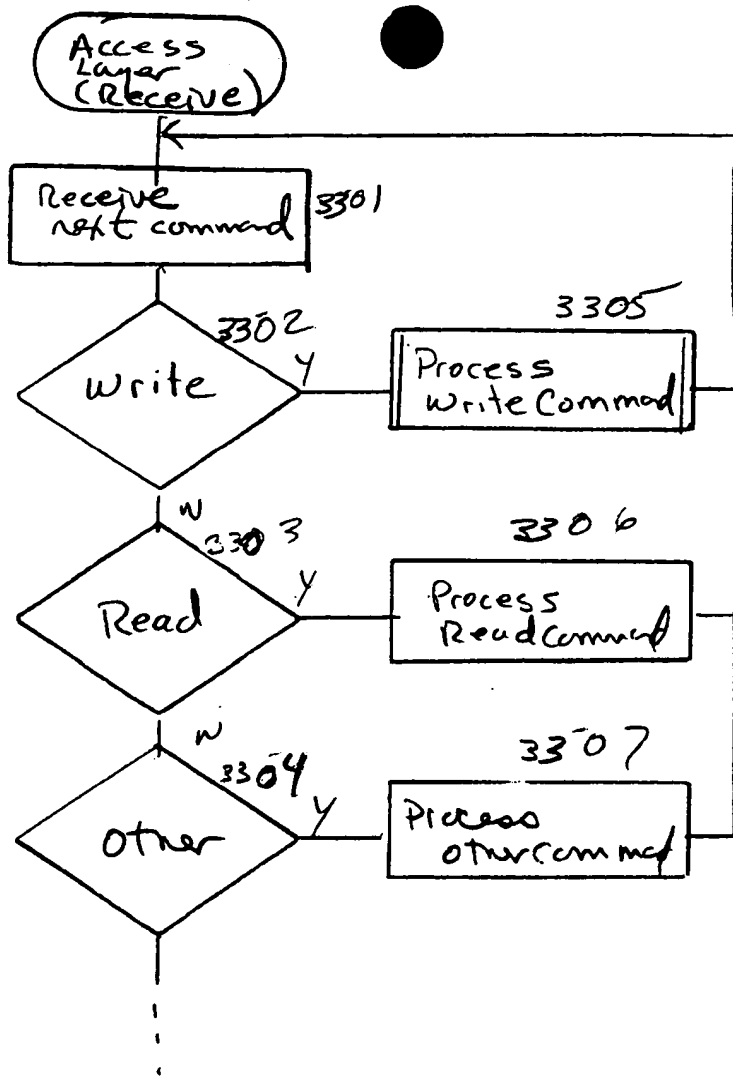


Fig 33.

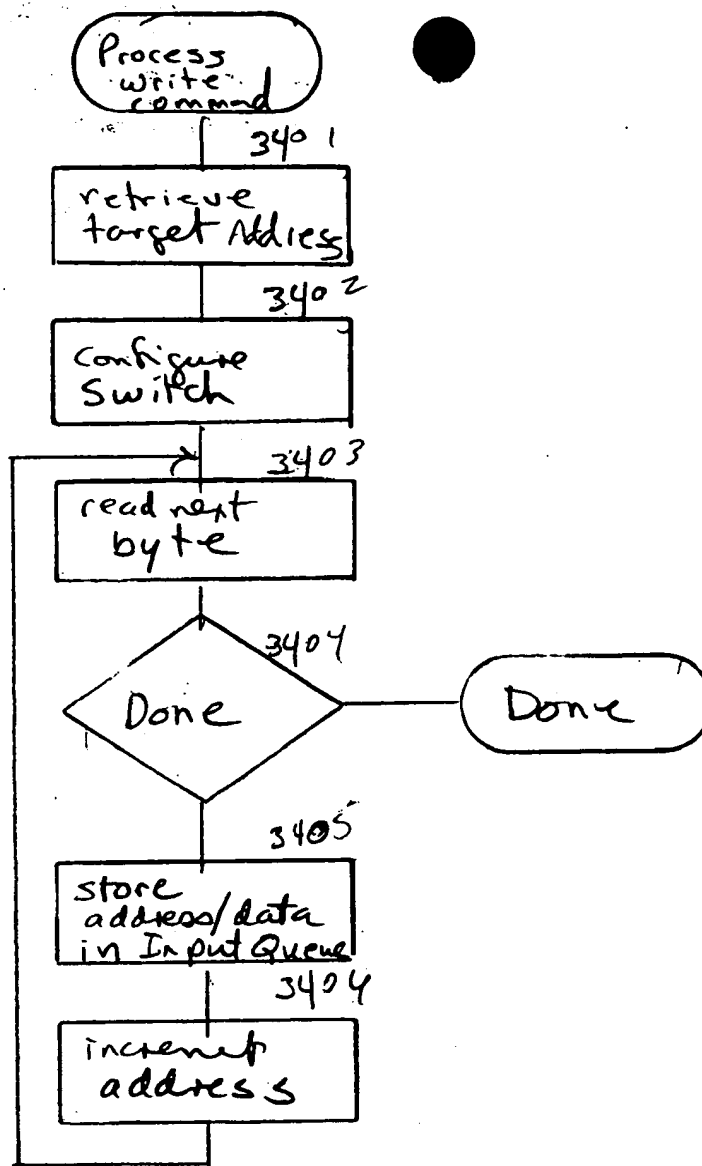


Fig 34



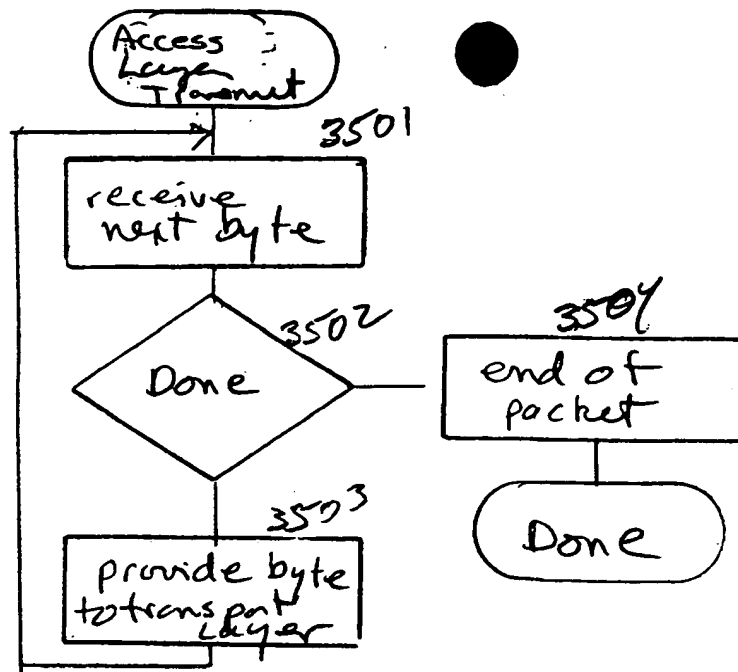
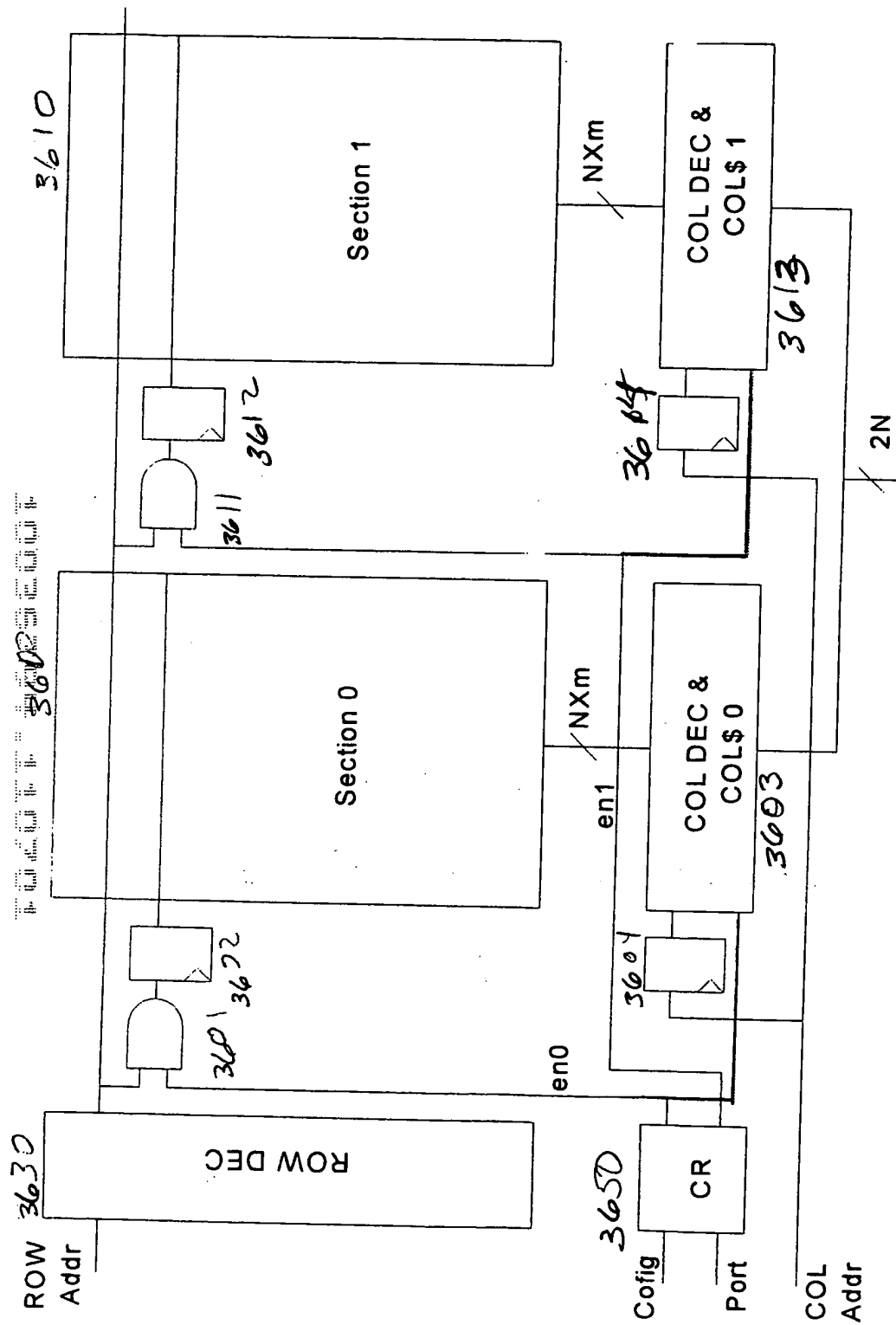
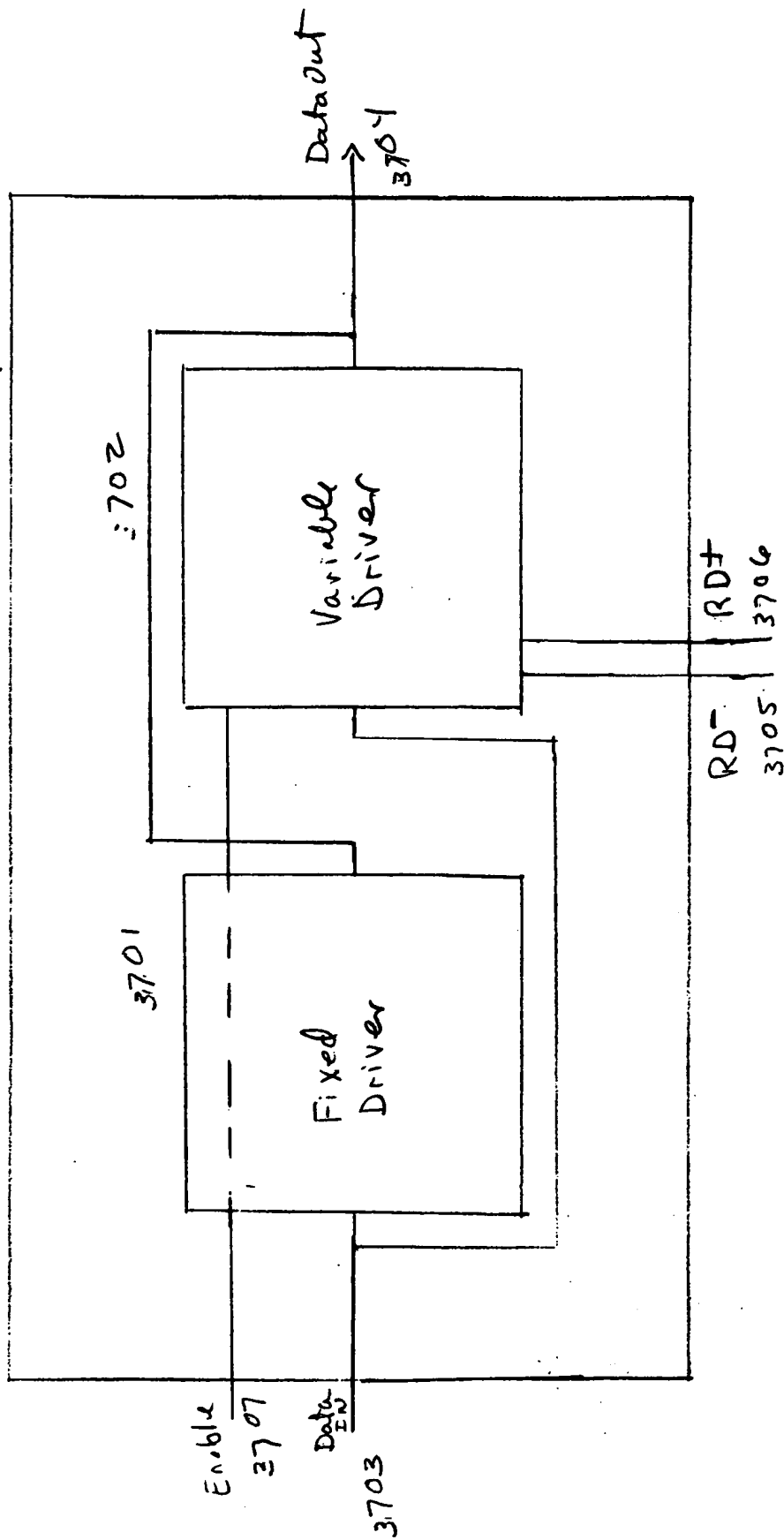


Fig 35



# Line Driver 3700



Variable Driver

$$\begin{cases} RD^+ \wedge \overline{DataIn} = \text{pull down} \\ RD^- \wedge DataIn = \text{pull up} \end{cases}$$

Fig 37A

FIG. 16B

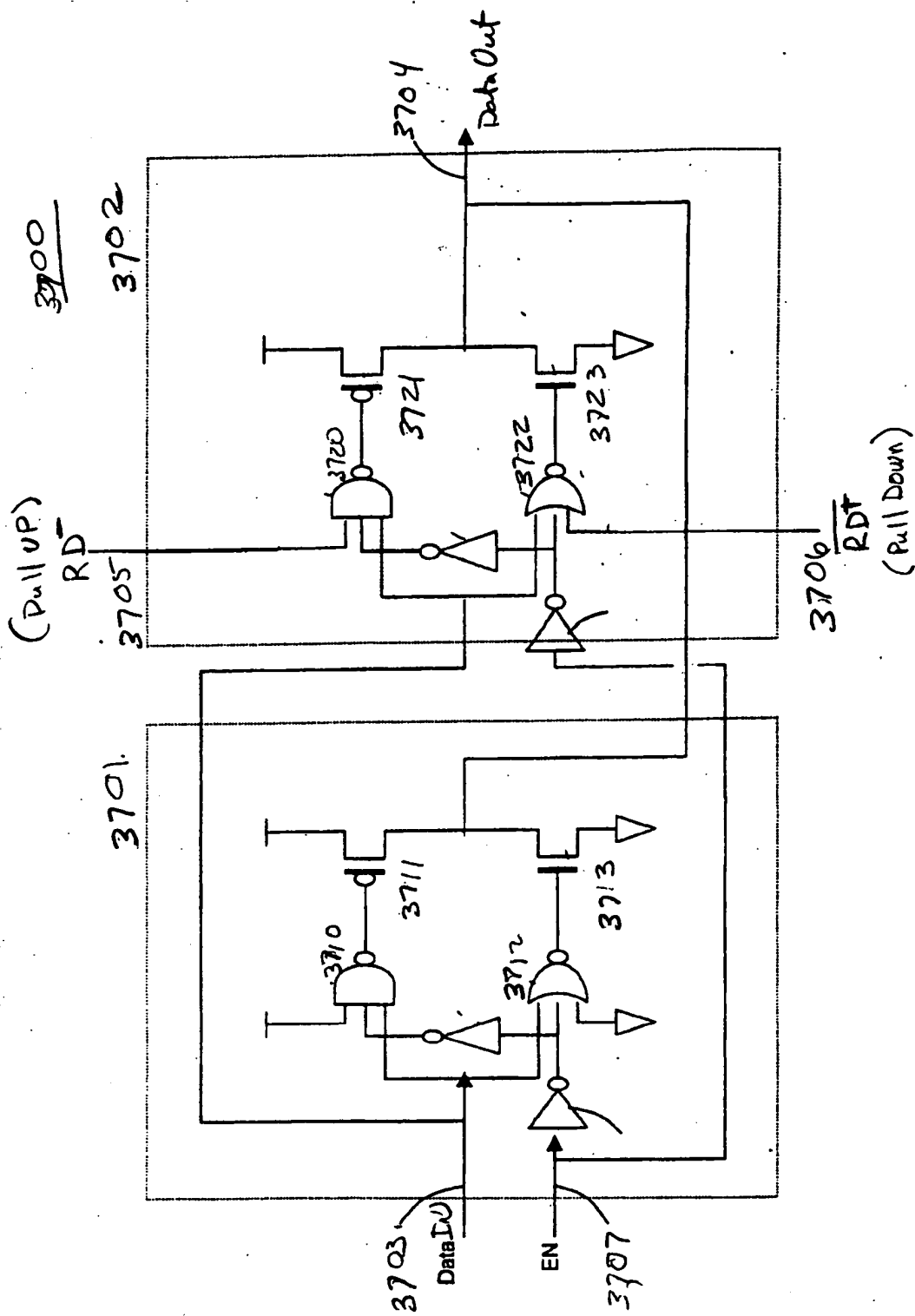
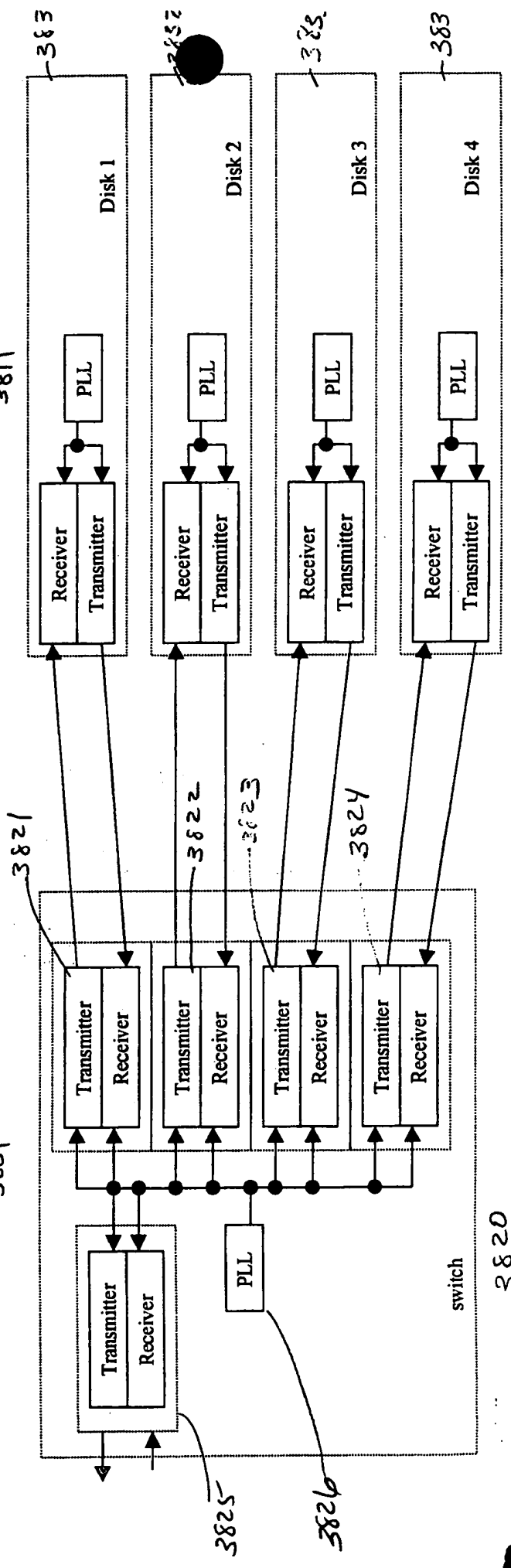
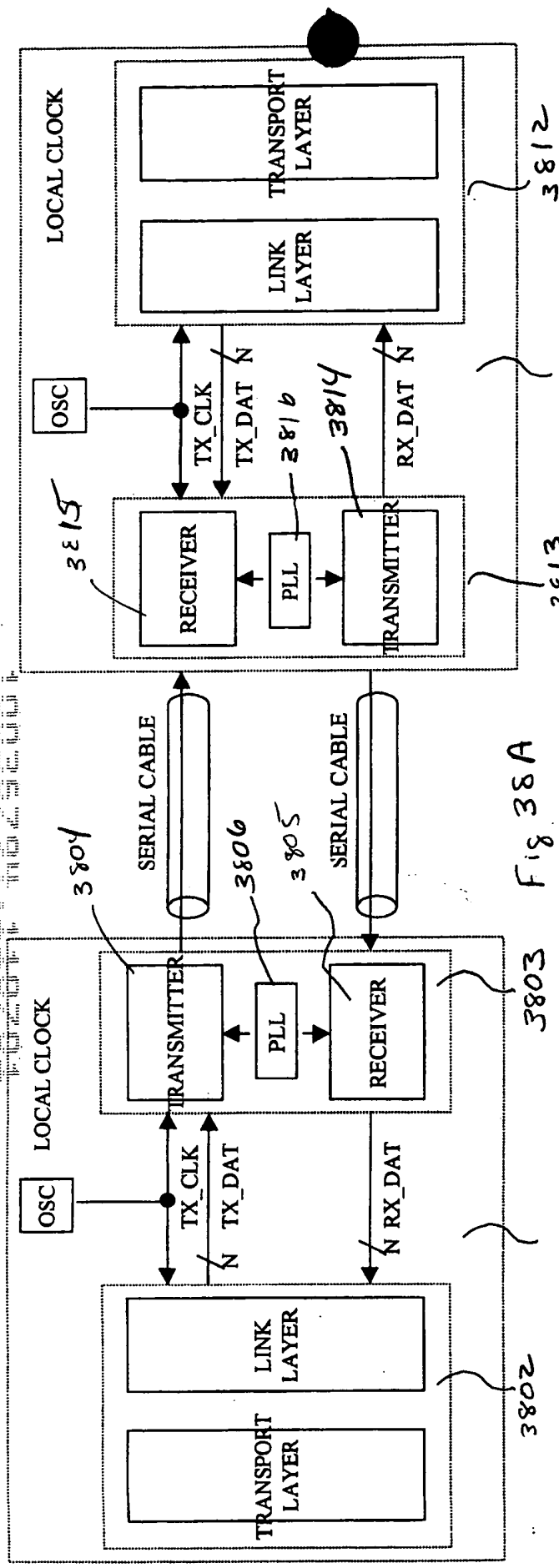


Fig 37B



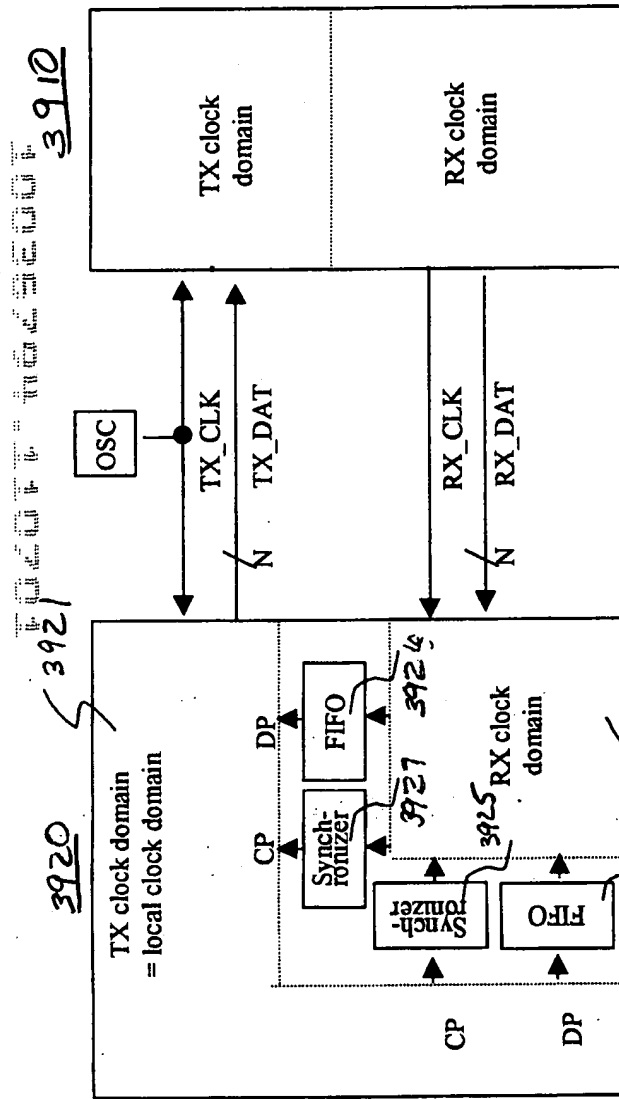


Fig 39A

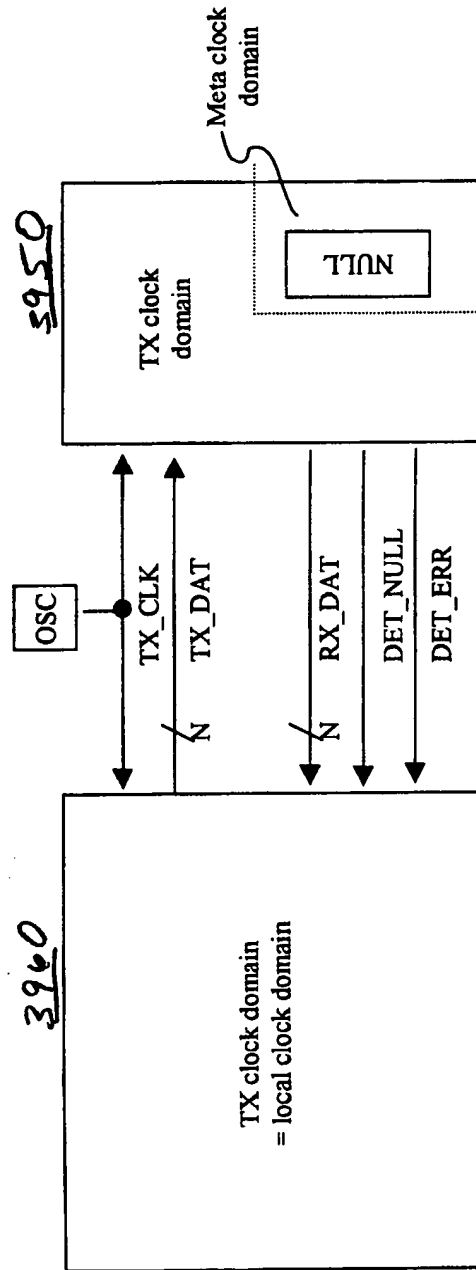


Fig 39B

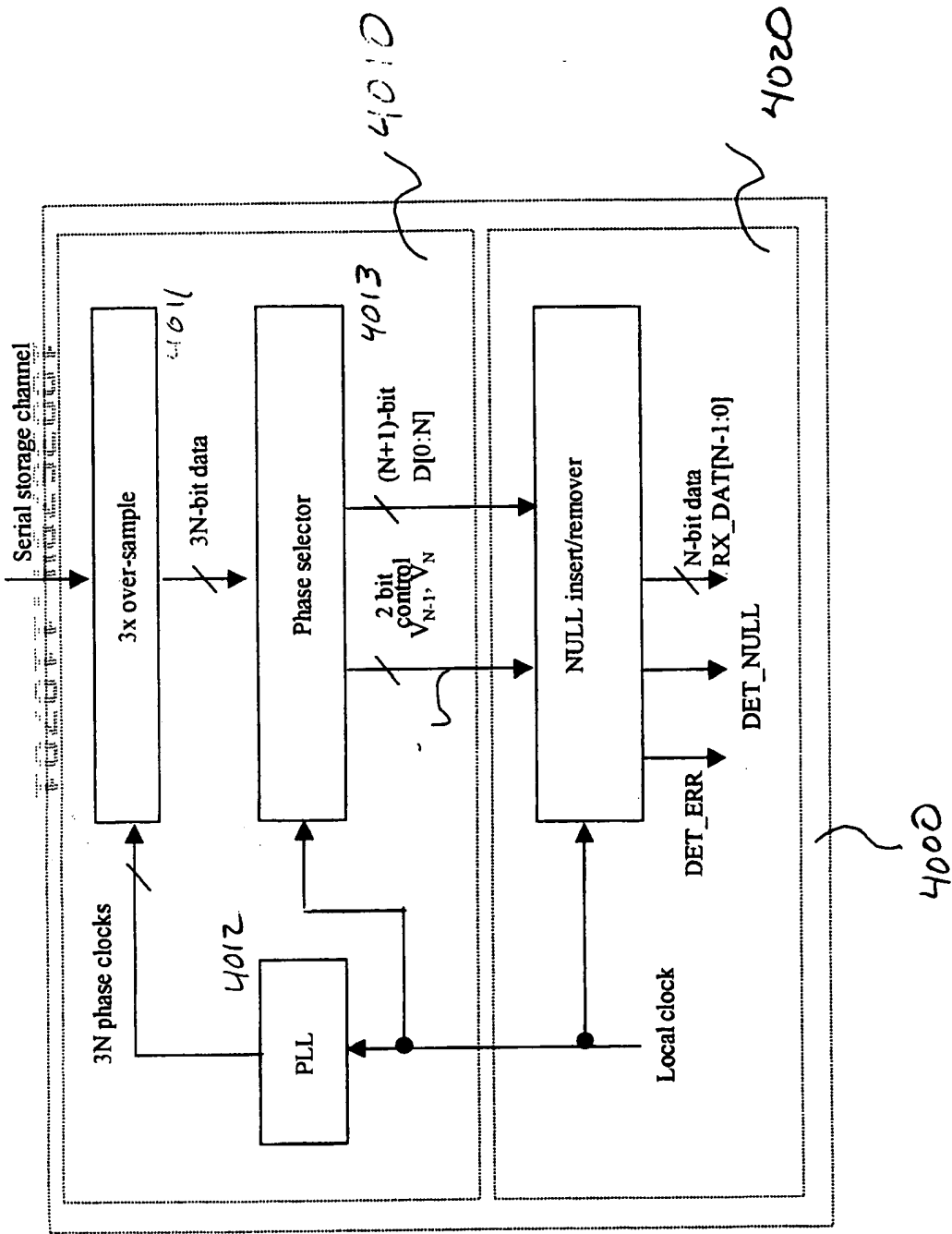


Fig 40

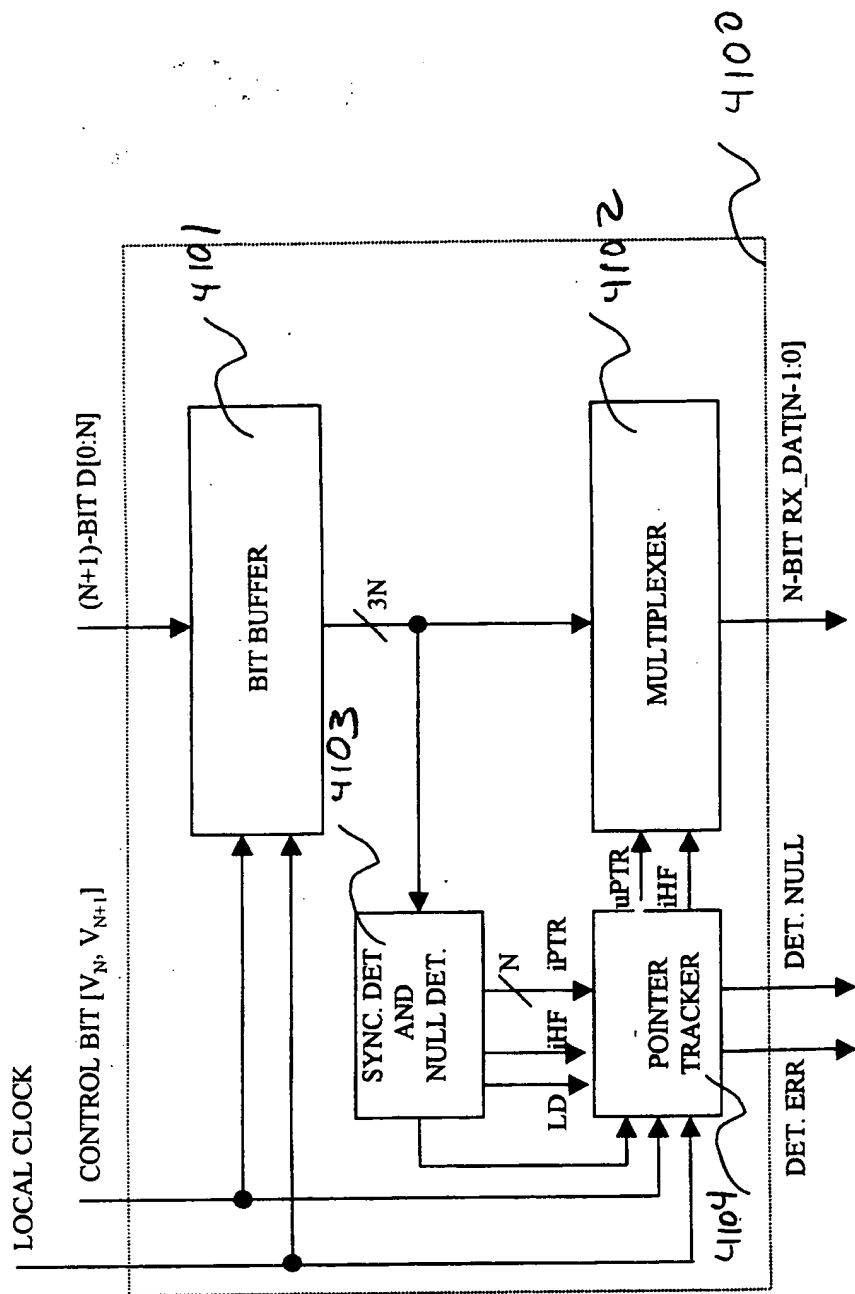


Fig 41



$$[V_{N-1}, V_N] = [1, 0]$$

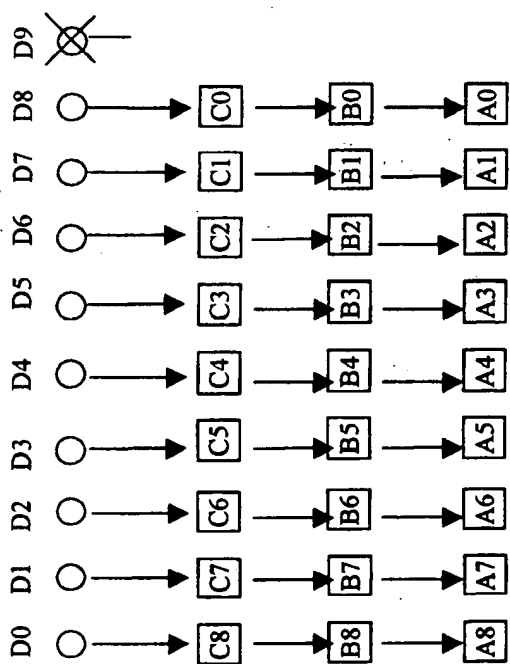


Fig 42A

FIG. 42B

$$[V_{N-1}, V_N] = [0, 0]$$

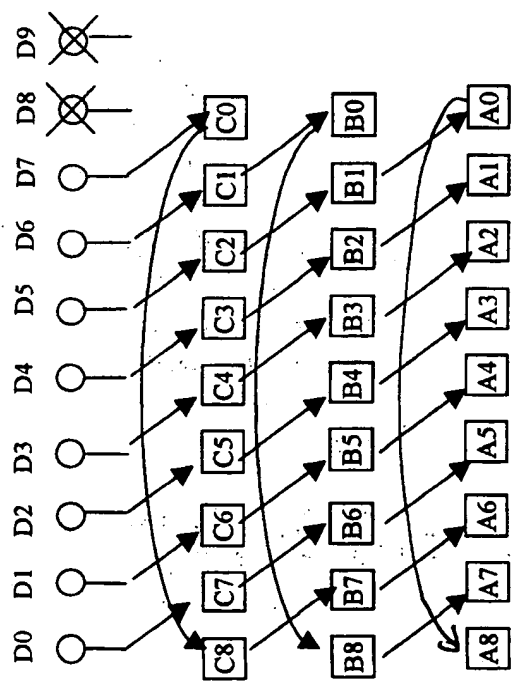


Fig 42B

FIG. 42C is a schematic diagram of a data path for a processor. The diagram shows a sequence of operations involving data registers A, B, and C, and a set of control signals D.

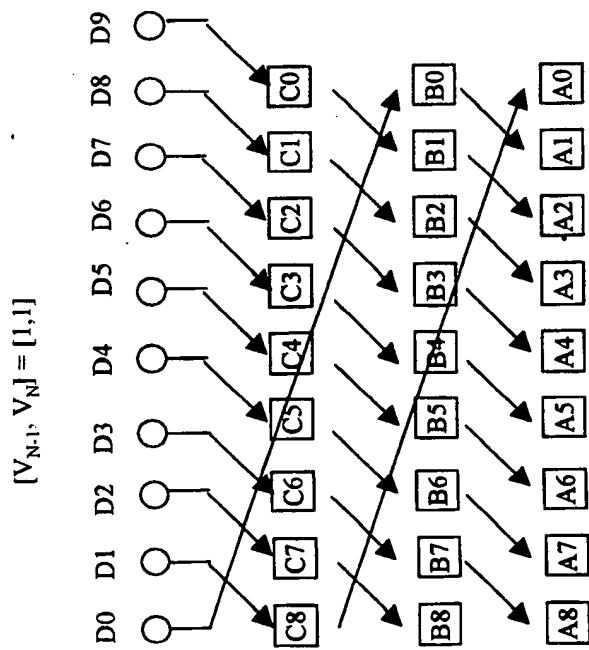
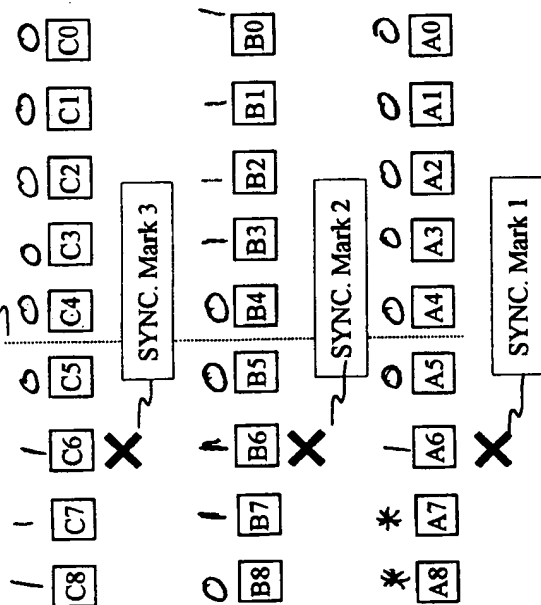


Fig 42c

LD = 1, iHF = 0, iPTR = "0010000000"

4301

Half line



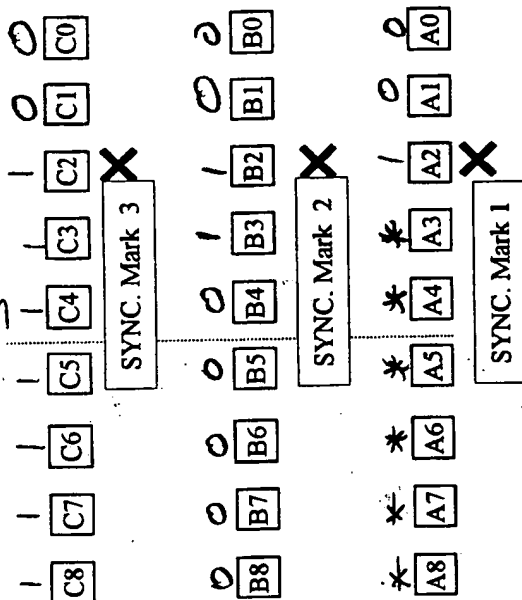
LD = 1, iHF = 0, iPTR = "0010000000"

SYNC. Mark

LD = 1, iHF = 1, iPTR = "000000100"

4302

Half line

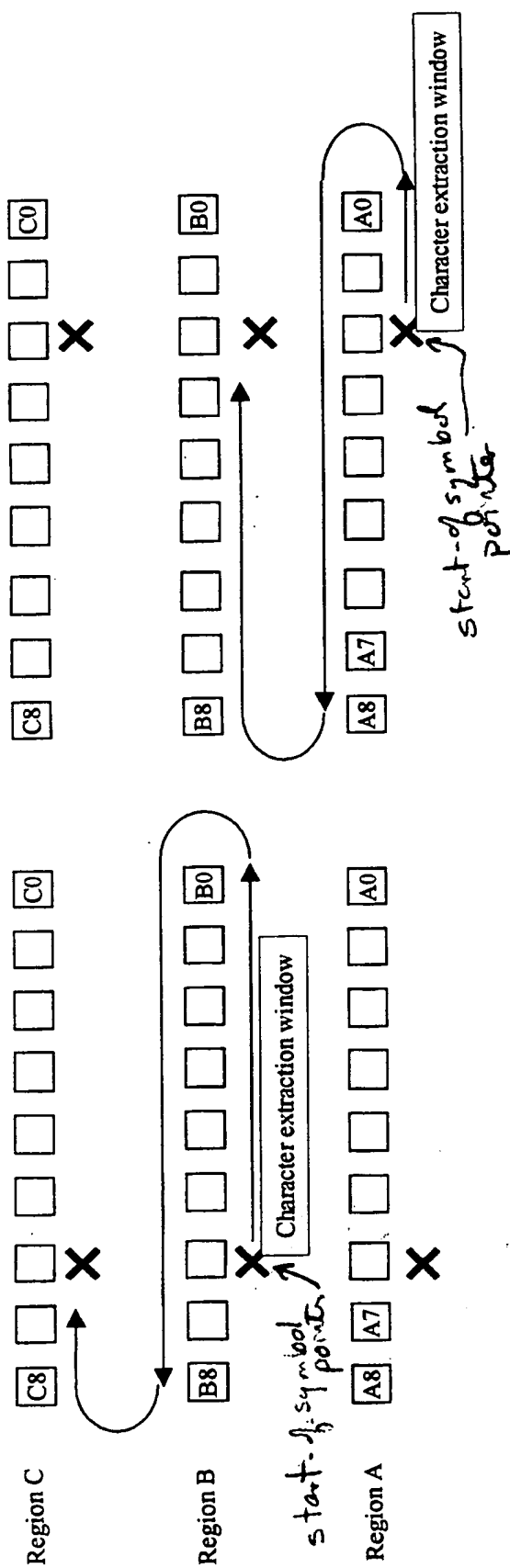


LD = 1, iHF = 1, iPTR = "000000100"

SYNC. Mark

Fig. 43

When the value of the address is 0, the value of the address is 0. When the value of the address is 1, the value of the address is 1.



LD = 1, iHF = 0, iPTR = "0010000000"

LD = 1, iHF = 1, iPTR = "000000100"

Fig 44

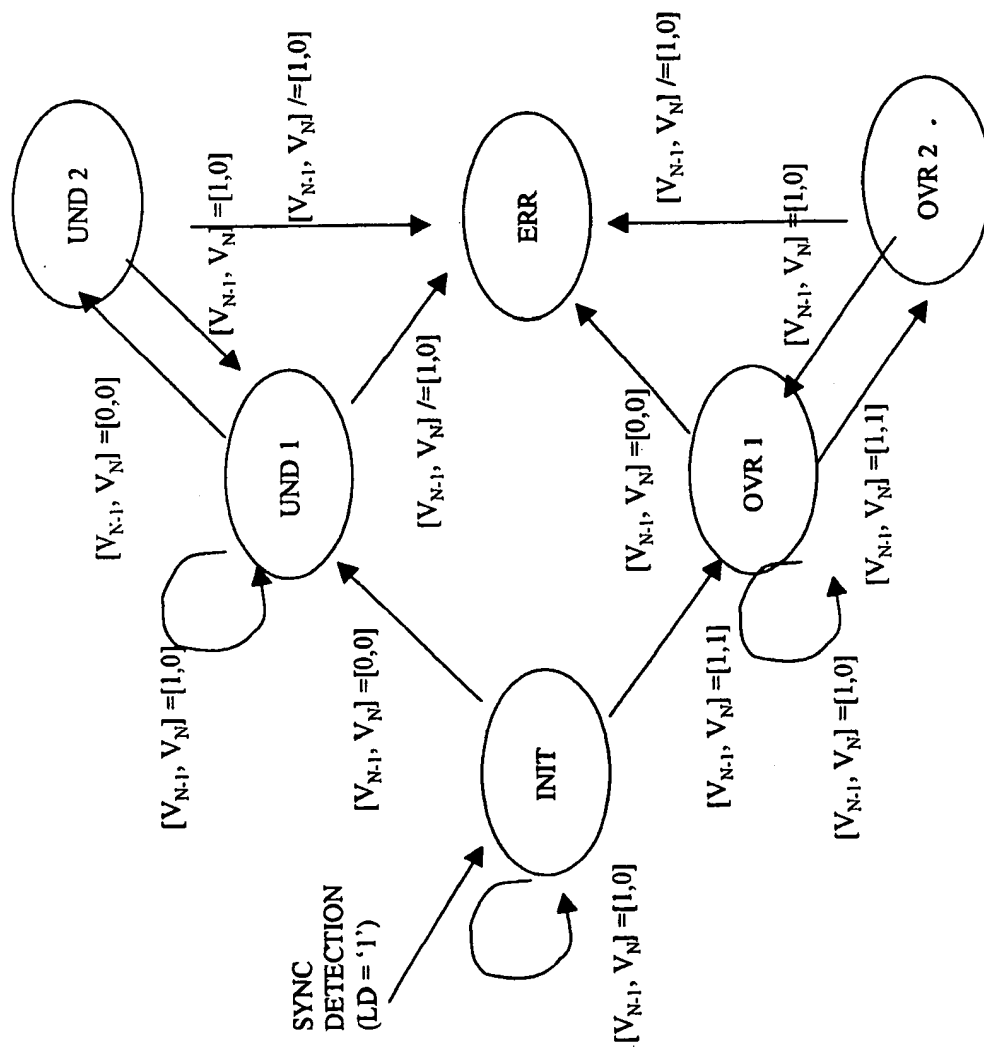


Fig 45

Figure 46 shows the sequence of events in the case of an overrun or underrun error. The sequence of events is as follows:

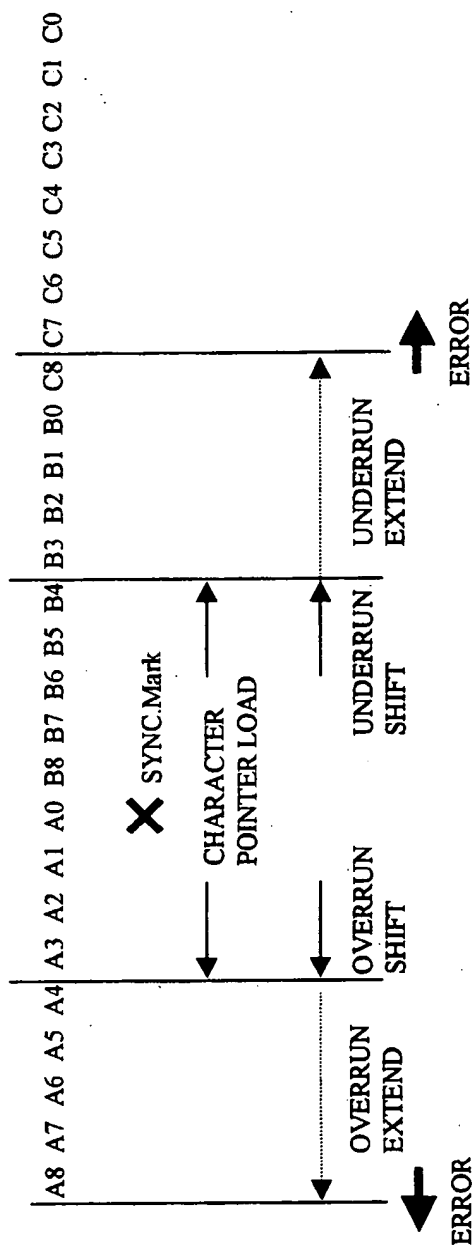


Fig 46

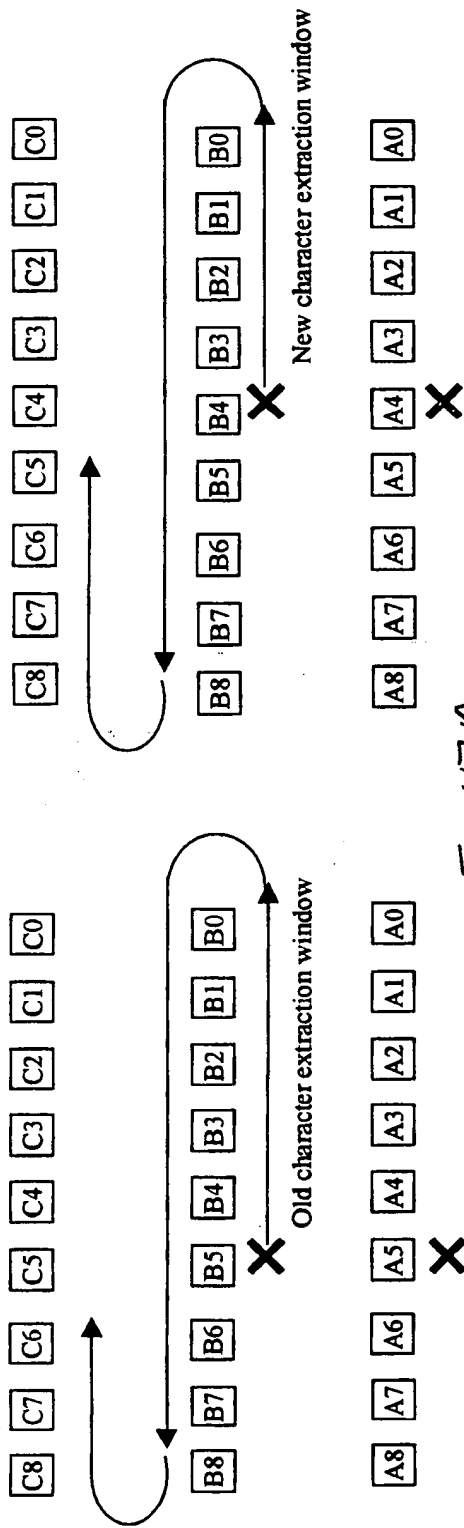


Fig 47A

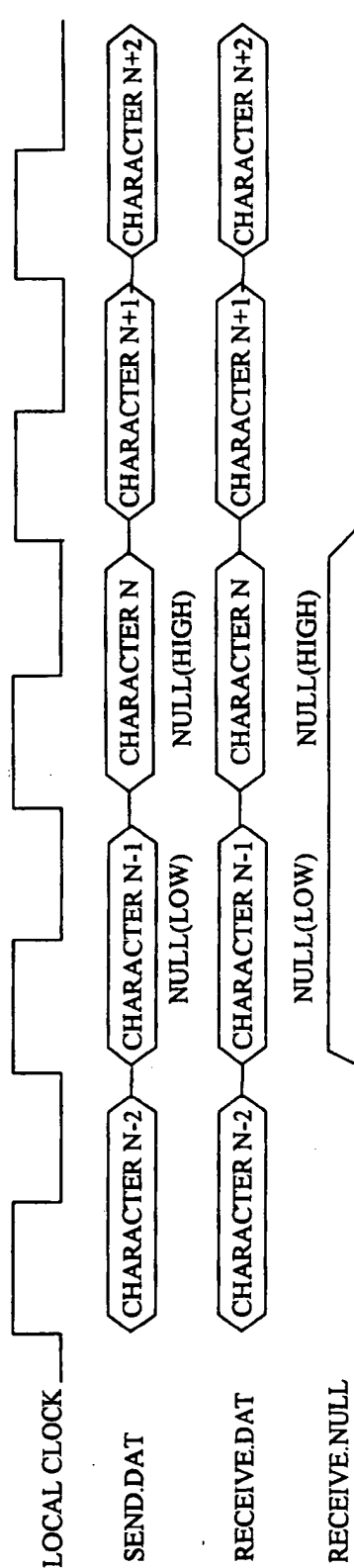


Fig 47B



FIG. 48A is a diagram illustrating a sequence of characters C0 through C8 and B0 through B8, and A0 through A8, showing the process of null character detection and extraction window management.

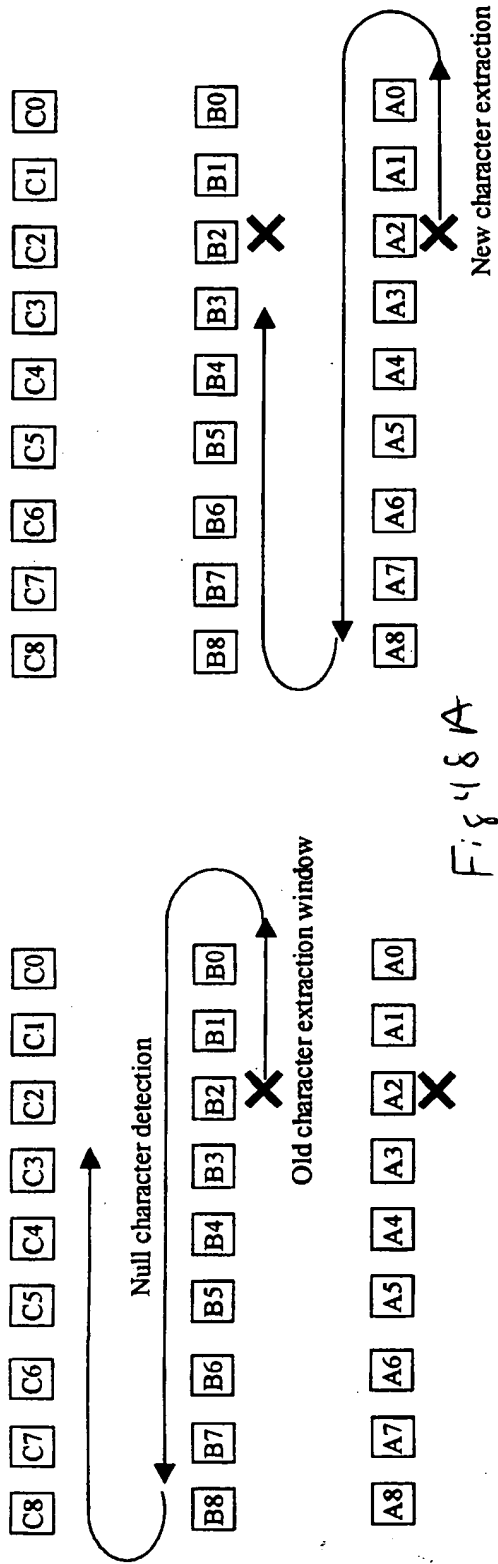


Fig 48A

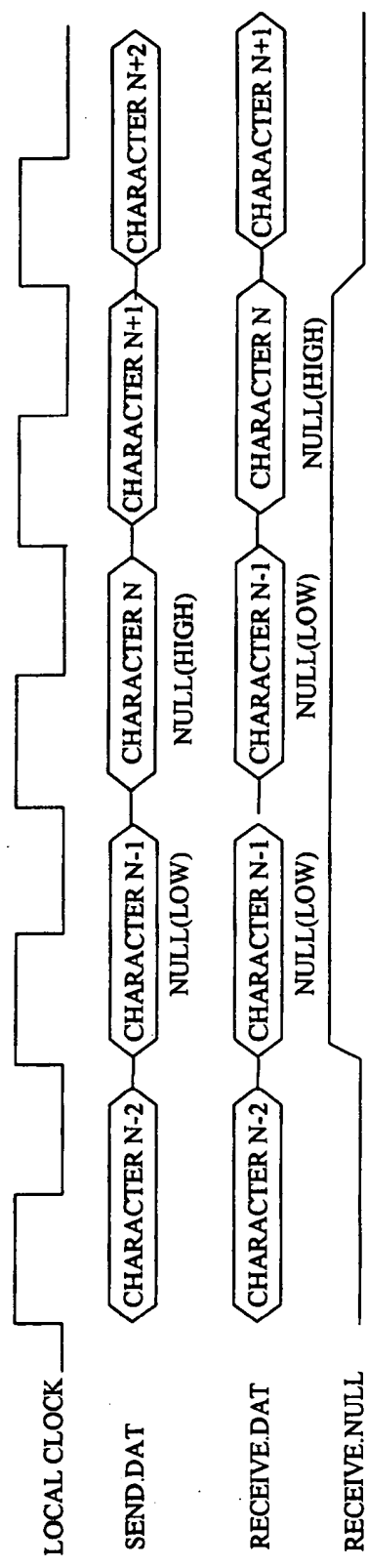
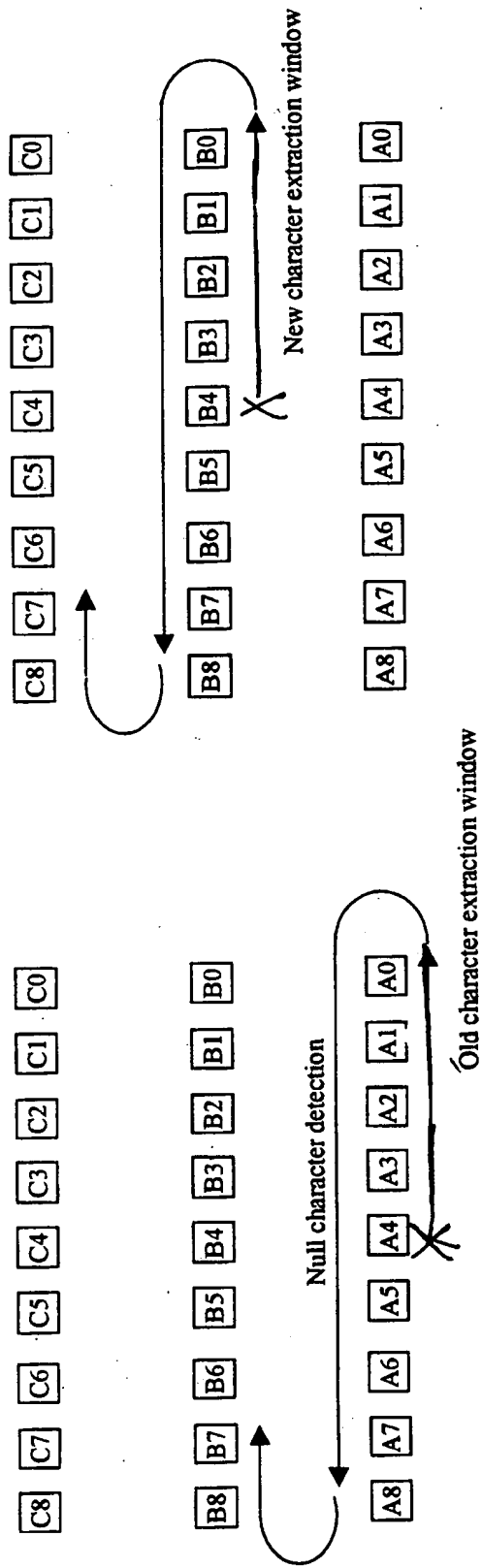


Fig 48B



Old character extraction window

Fig. 49A

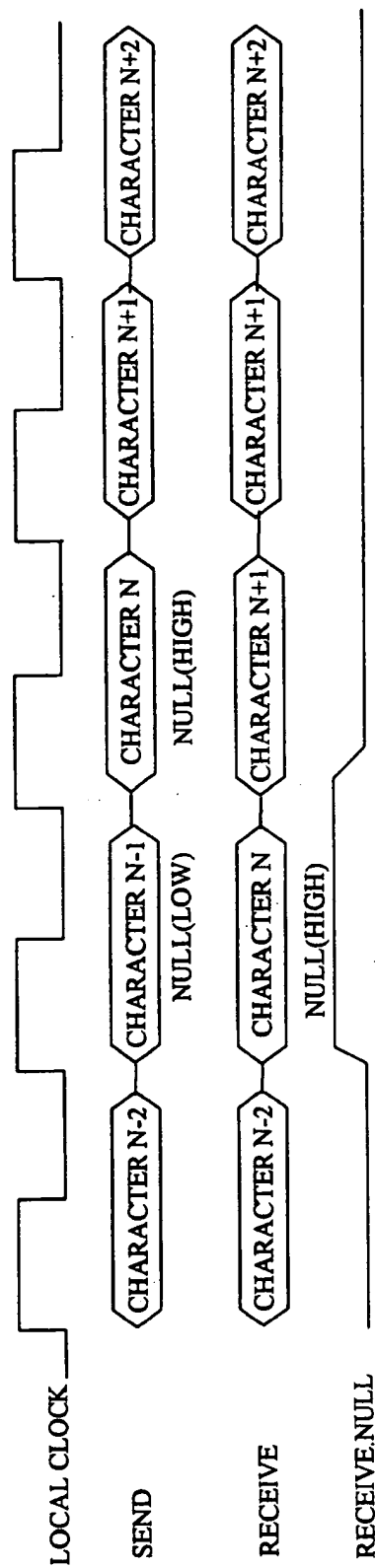


Fig 49B